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TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1914

ANDOVER, MASS.
THE ANDOVER PRESS
1915

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TOWN OFFICERS, 1914

Selectmen, Assessors and Overseers of the Poor

HARRY M. EAMES, <i>Chairman</i>	Term-expires	1917
CHARLES BOWMAN	" "	1915
WALTER S. DONALD, <i>Secretary</i>	" "	1916

Town Clerk

GEORGE A. HIGGINS

Tax Collector

JOHN W. BELL

Town Treasurer

GEORGE A. HIGGINS

School Committee

ALFRED E. STEARNS	Term expires	1917
GEORGE A. CHRISTIE	" "	1917
LILIAN BREWSTER	" "	1917
BARTLETT H. HAYES	" "	1915
HENRY A. BODWELL	" "	1915
JOHN C. ANGUS	" "	1915
THOMAS E. RHODES	" "	1916
FREDERIC G. MOORE	" "	1916
PHILIP F. RIPLEY	" "	1916

Superintendent of Schools

J. FRANCIS ALLISON

Board of Public Works and Sinking Fund Commission

THOMAS E. RHODES	Term expires	1917
WILLIS B. HODGKINS	" "	1915
ANDREW McTERNEN	" "	1915
LEWIS T. HARDY	" "	1916
BARNETT ROGERS	" "	1916

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE

Engineers of Fire Department

LEWIS T. HARDY, *Chief* WALTER I. MORSE, *Clerk*
ALLAN SIMPSON

Board of Health

BANCROFT T. HAYNES	Term expires	1917
FRANKLIN H. STACEY	" "	1915
CHARLES E. ABBOTT, M.D.	" "	1916

Chief of Police

FRANK M. SMITH

Constables

JOHN H. CLINTON	Term expires	1915
GEORGE W. MEARS	" "	1915
LLEWELLYN D. POMEROY	" "	1915
FRANK M. SMITH	" "	1915
WILLIAM L. FRYE	" "	1915

Trustees of Memorial Hall Library

CHARLES C. CARPENTER	Term expires	1921
GEORGE F. SMITH	" "	1915
ALFRED E. STEARNS	" "	1916
BURTON S. FLAGG	" "	1917
E. KENDALL JENKINS	" "	1918
JOHN ALDEN	" "	1919
FREDERIC S. BOUTWELL	" "	1920

Trustees of Punchard Free School — Terms expire 1916

SAMUEL H. BOUTWELL	HARRY H. NOYES
MYRON E. GUTTERSON	HARRY M. EAMES
FRANK T. CARLTON	

Auditors

JOHN S. ROBERTSON	WALTER H. COLEMAN
NESBIT G. GLEASON	

Trustee of Cornell Fund

JOHN C. ANGUS	Term expires	1917
ALLAN SIMPSON	" "	1916
*FRANK E. GLEASON	" "	1915
DR. WILLIAM D. WALKER	" "	1915

*Deceased.

Superintendent of Moth Department

JOHN H. PLAYDON

Tree Warden

JOHN H. BAKER

Moderator of Town Meetings

ALFRED L. RIPLEY

TOWN MEETINGS

Annual Town Meeting, March 2, 1914

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover. GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on Monday, March 2nd, 1914, at 6 o'clock A.M., to act on the following articles:

Article 1. To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Health for three years, one member of the Board of Health for one year, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, Pound Keeper, Fence Viewers, Surveyors of Lumber, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, "Shall Licenses be granted for the sale of intoxicating liquors in this town?"

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Widows and Destitute Children, Board of Health, Fire Department, Hay Scales, Highway Department, Water for Street Sprinkling, Insurance, Interest, Memorial Hall Library, Memorial Day, Miscellaneous, Parks and Playstead, Police, Printing and Stationery, Public Dump, Redemption of Water Bonds, School House Bonds and Andover Loan Bonds, Schools, School Houses, School Books and Supplies, Sewer Maintenance, Sewer Sinking Funds, Snow, Soldiers' Relief, Spring Grove Cemetery, State Aid, Sidewalks, Street Lighting, Town Officers, Town Hall, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will appropriate the sum of \$8900 for the purchase of a Combination Hose and Pump Motor Truck, operating and maintaining the same, to replace the hose wagon and fire engine now in use and dispose of two pair of horses, on petition of the Board of Fire Engineers.

Article 5.—To see if the town will vote to build an addition to the North School and appropriate \$2500 therefor, on petition of the School Committee.

Article 6.—To see if the town will instruct the School Committee to secure the services of a competent architect to prepare floor plans and elevations of a new high school building, and to obtain approximate estimates of the cost of same. These plans and estimates to be submitted to the town at the annual meeting in March, 1915, and appropriate the sum of five hundred (\$500) dollars therefor, on petition of the School Committee.

Article 7.—To see if the town will vote to extend the water line to the residence of Charles C. Stickney on Woburn Street, on petition of Daniel H. Poor and others.

Article 8.—To see if the town will appropriate two hundred (\$200) dollars for the improvement and care of "The Boulders" to be expended under the care of the Andover Village Improvement Society.

Article 9.—To see if the town will instruct the Selectmen to ascertain whether the town owns any of the land now fenced in, adjoining Elm Square, on petition of the Andover Village Improvement Society.

Article 10.—To see if the town will appropriate the sum of four hundred (\$400) dollars for the purpose of giving a series of band concerts in the summer of 1914, on petition of Thomas E. Rhodes and others.

Article 11.—To see if the town will appropriate the sum of two hundred fifty (\$250) dollars for the purpose of installing a Universal Box in the Central Fire Station, on petition of Louis A. Dane and others.

Article 12.—To see if the town will appropriate money for a fire alarm box at the upper end of Morton Street, on petition of Daniel J. Haggerty and others.

Article 13.—To see if the town will appropriate money for two fire alarm boxes, one at the junction of Andover and High Streets and another at the corner of Centre and Tewksbury Streets, Ballard Vale, on petition of Willis B. Hodgkins and others.

Article 14.—To see if the town will instruct the Board of Public Works to extend the sewer system from its present terminus on Summer Street as far as the residence of H. F. Chase, authorize its construction and assess betterments upon the estates benefited, on petition of John Franklin and others.

Article 15.—To see if the town will vote to lay aside the sum of thirty thousand (\$30,000) dollars for the purpose of laying out and macadamizing Lowell Street from Broadway, Frye Village, to the Tewksbury line, on petition of Joseph S. Chambers and others.

Article 16.—To see if the town will appropriate the sum of three hundred (\$300) dollars for the construction of a drain to carry off the surface water in front of 88 Central Street, on petition of L. F. Hitchcock and others.

Article 17.—To see if the town will vote to authorize the issue of ten thousand (\$10,000) dollars of water Loan Bonds, the proceeds to be used for the extension and improvements of the water system, on petition of the Board of Public Works.

Article 18.—To see if the town will vote to discontinue that part of Prospect Hill Road beginning at a point near the house owned by W. H. Higgins to the North Andover line, on petition of the Board of Public Works.

Article 19.—To see if the town will vote to discontinue that part of Poor Street between North Main and Union Streets, on petition of George L. Stott and others.

Article 20.—To see what action the town will take in improving Elm Square according to plans made by the Superintendent of Streets, G. W. Wood, on petition of the Board of Public Works.

Article 21.—To see if the town will appropriate the sum of one thousand (\$1000) dollars for the erection of a sidewalk on the south side of Haverhill Street, beginning at the boundary line of the late Frank Barton to the boundary line of Geo. C. H. Dufton; on petition of Hugo E. Dick and others.

Article 22.—To see if the town will appropriate a sum of money for an extension of the sidewalk on the northerly side of Haverhill Street about 275 feet east of the Filter Bed Road, on petition of Thomas T. Clark and others.

Article 23.—To see what action the town will take in regard to the removal of the Brick Pumping Station on Bancroft Road, and the installation of a pumping station to take its place in a vault made for the purpose near the so-called Holt farm reservoir, said pumping station to be run by electricity instead of oil, and the appropriation of a sufficient sum of money for this purpose, on petition of Fred M. Temple and others.

Article 24.—To see if the town will petition the Director of the Bureau of Statistics for an audit of its accounts in accordance with the provisions of Chapter 598, Acts of 1910, and amendments thereof.

Article 25.—To see if the town will grant permission to the "Syrian Public Cemetery Corporation" to use for cemetery purposes the following described land, to wit: Westerly by Corbett Street 125 feet; Southerly by land owned by the United Syrian Society Cemetery Corporation 250 feet; Easterly by land now or formerly of Hanna Skeirik 125 feet; Northerly by land now

or formerly of Hannah Skeirik 250 feet, the whole being a part of the land formerly granted to the United Syrian Society Cemetery Corporation, on petition of The Syrian Public Cemetery Corporation.

Article 26.—To fix the pay of the firemen for the ensuing year.

Article 27.—To determine the method of collecting the taxes for the ensuing year.

Article 28.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 29.—To determine what disposition shall be made of unexpended appropriations.

Article 30.—To act upon the Report of the Town Officers.

Article 31.—To determine the amount of money to be raised by taxation the ensuing year.

Article 32.—To transact any other business that may legally come before the meeting.

The polls may be closed at 2 o'clock P.M.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands at Andover this seventeenth day of February in the year one thousand nine hundred and fourteen.

HARRY M. EAMES,
WALTER S. DONALD,
CHARLES BOWMAN,
Selectmen of Andover.

ANDOVER, MARCH 2, 1914

ESSEX SS.

Pursuant to the foregoing Warrant, I the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said Warrant, by posting a true and attested copy of the same on the Town House, on each schoolhouse and in not less than five other public places where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH,
Constable.

ANNUAL TOWN MEETING, MARCH 2, 1914

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs, convened in the Town House in said Andover on Monday, the second day of March, 1914, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Moderator Harry A. Ramsdell presided, and after reading a part of the warrant it was

Voted, To dispense with the further reading of the warrant.

Voted, That the polls be closed at 2 o'clock P. M.

Took up Articles 1 and 2 and proceeded to vote for Town Officers and on the Liquor License question by the Australian Ballot System.

The ballot box was found to be empty and registered 0000. The polls opened at 6 o'clock A. M. Whole number of ballots cast, 914, forty-one (41) of which were female ballots for School Committee only.

The result of the balloting was as follows:

MODERATOR—One year:

Harry A. Ramsdell	382
Alfred L. Ripley	462
Henry Provo	1
Blanks	69

TOWN CLERK—One year:

George A. Higgins	763
David Burns	1
P. J. Scott	1
Henry Provo	1
Blanks	148

TOWN TREASURER—One year:

George A. Higgins	743
Martin Doherty	1
E. R. Shaw	1
Henry Provo	1
Blanks	168

SELECTMAN—Three years:

Harry M. Eames	702
Chester Harnden	1
Tom Conners	1
Tom Rhodes	1
Henry Provo	1
J. Trainor	1
• Blanks	207

ASSESSOR—Three years:

Harry M. Eames	685
Henry Provo	1
John Trainor	1
Blanks	227

COLLECTOR OF TAXES—One year:

John W. Bell	749
T. J. Mahoney	1
Reuben Eastwood	1
Henry Provo	1
Blanks	162

SCHOOL COMMITTEE—Three years:

Lilian Brewster	535
George A. Christie	609
Edward C. Conroy	453
Alfred E. Stearns	678
Blanks	590

BOARD OF PUBLIC WORKS AND SINKING FUND

COMMISSION—Three years:

Thomas E. Rhodes	515
George F. Smith	303
John Sweeney	70
Blanks	26

BOARD OF HEALTH—Three years:

Bancroft T. Haynes	655
Blanks	259

BOARD OF HEALTH—One year:

Franklin H. Stacey	663
Henry Provo	1
Blanks	250

AUDITORS OF ACCOUNTS—One year:

Walter H. Coleman	645
Nesbit G. Gleason	637
John S. Robertson	691
Joseph Lynch	1
Henry Provo	1
Blanks	767

CONSTABLES—One year:

John H. Clinton	724
George W. Mears	634
Frank M. Smith	707
George T. Abbott	1
William Frye	1
Blanks	675

TRUSTEE OF MEMORIAL HALL LIBRARY—Seven years:

Charles C. Carpenter	644
Blanks	270

TREE WARDEN—One year:

John H. Baker	670
Blanks	244

Shall Licenses be granted for the Sale of Intoxicating
Liquors in this town?

Yes	268
No	531
Blanks	115

“Shall this town accept the provisions of Section forty-two of Chapter five hundred and fourteen of the acts of the year nineteen hundred and nine, as affected by Chapter four hundred and ninety-four of the acts of the year nineteen hundred and

eleven, which provides that eight hours shall constitute a day's work for city or town employees?"

Yes	366
No	216
Blanks	332

"Shall Chapter eight hundred and seven of the acts of nineteen hundred and thirteen, being an act to provide for compensating laborers, workmen and mechanics for injuries sustained in public employment and to exempt from legal liability counties and municipal corporations which pay such compensation, be accepted by the inhabitants of this town?"

Yes	393
No	135
Blanks	386

All the foregoing officers and questions were voted on by ballot and the check lists were used.

PRECINCT CLERK'S REPORT

The Moderator declared—

- Alfred L. Ripley elected Moderator for one year.
- George A. Higgins elected Town Clerk for one year.
- George A. Higgins elected Town Treasurer for one year.
- Harry M. Eames elected Selectman for three years.
- Harry M. Eames elected Assessor for three years.
- John W. Bell elected Collector of Taxes for one year.
- Lilian Brewster elected School Committee for three years.
- George A. Christie elected School Committee for three years.
- Alfred E. Stearns elected School Committee for three years.
- Thomas E. Rhodes elected Board of Public Works for three years.
- Bancroft T. Haynes elected Board of Health for three years.
- Franklin H. Stacey elected Board of Health for one year.

Walter H. Coleman elected Auditor for one year.

Nesbit G. Gleason elected Auditor for one year.

John S. Robertson elected Auditor for one year.

John H. Clinton elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Charles C. Carpenter elected Trustee of Memorial Hall Library for seven years.

John H. Baker elected Tree Warden for one year.

Chose Trustee of Cornell Fund—John C. Angus for three years.

Chose Surveyors of Lumber for one year—Frank E. Gleason, William H. Carter.

Chose Street Lighting Committee for one year—Barnett Rogers, Walter H. Coleman, Colver J. Stone, Charles B. Baldwin, Henry J. Gardner.

Chose Finance Committee for one year—Bernard M. Allen, George L. Averill, Samuel H. Bailey, Albert W. Lowe, Joseph L. Burns, John H. Campion.

Town Pound—*Voted*, That the Town Barn and Barnyard be the Town Pound.

Took up Article 3.

Voted, To appropriate the following stated sums of money:

Almshouse Expenses	\$4000 00
Repairs on Almshouse	800 00
Relief out of Almshouse	4,500 00
Aiding widows and destitute children	500 00
Board of Health	1,000 00
Fire Department, running expenses, purchase of new hose and necessary repairs	7,700 00
Use of hydrants and water used in Engine House	550 00
Hay Scales	100 00
Highway Department	25,000 00
<i>Amount carried forward,</i>	<hr/> \$44150 00

<i>Amount brought forward,</i>	\$44150 00
Also amounts received from Street sprinkling and Street Railway Excise and Franchise Taxes	
Water for Street Sprinkling	300 00
Insurance	850 00
Interest	14,000 00
Memorial Hall Library	2,300 00
Memorial Day	350 00
Post 99, G. A. R., Chapter 62, Acts of 1913	50 00
Miscellaneous	2,800 00
Parks and Playstead	1,700 00
Police	4,200 00
Printing and Stationery	1,250 00
Public Dump	75 00
Redemption of Water Bonds	10,000 00
Redemption of School House Bonds	4,000 00
Redemption of Andover Loan Act Bonds	5,000 00
Schools	
Maintenance	39,000 00
Books and Supplies	2,400 00
School Houses	2,500 00
Industrial School	500 00
Sewer Department	
Maintenance	1,500 00
Sinking Funds	1,000 00
Snow	2,500 00
Soldiers' Relief	1,000 00
Spring Grove Cemetery and receipts from Sale of lots	1,000 00
State Aid	1,500 00
Sidewalks (\$250 to be spent under Betterment Act, but no applications are received before September 1, it shall be at the disposal of the Board of Public Works)	1,500 00
Street Lighting	6,000 00
Town Officers	6,500 00
Town Hall	2,300 00
<i>Amount carried forward,</i>	<hr/> \$160,225 00

<i>Amount brought forward,</i>	\$160,225 00
Tree Warden	250 00
Gypsy and Browntail Moth Department	3,250 00
Water Department	
Maintenance	10,000 00
Construction	1,500 00
Sinking Funds	750 00
Motor Truck	8,900 00
Addition to North School	2,500 00
Plans for High School	500 00
Fire Alarm Boxes	600 00
	<hr/>
Total	\$188,475 00
Estimated County Tax	13,400 00
Estimated State Tax	23,000 00
	<hr/>
	\$224,875 00

Took up Article 4.

Voted, at 3.09 P. M., That the town appropriate the sum of \$8,900 for the purchase of a Combination Hose and Pump Motor Truck, operating and maintaining the same, to replace the hose wagon and fire engine now in use and to dispose of two pairs of horses.

Took up Article 5.

Voted, at 3.12 P. M., That the School Committee be authorized to build an addition to the North School and that the town appropriate \$2,500 therefor.

Took up Article 6.

Voted, at 3.18 P. M., That the town instruct the School Committee to secure the services of a competent architect to prepare floor plans and elevations of a new high school building, and to obtain approximate estimates of the cost of same, also to look into the matter of remodelling the present building. These plans and estimates to be submitted to the town at the annual meeting in March, 1915, and that the sum of \$500 be appropriated therefor.

Took up Article 7.

Voted, at 3.37 P.M., To refer the matter to the Board of Public Works.

Took up Article 8.

Voted, at 3.39 P.M., That the Article be laid on the table and that Article 3 be reconsidered and the appropriation for Parks and Playstead be increased from \$1,500 to \$1,700, the additional \$200 to be spent on "The Boulders" and that the Board of Public Works invite the co-operation of the Andover Village Improvement Society in its expenditure.

Voted, at 3.40 P.M., That Article 8 be taken from the table and indefinitely postponed.

Took up Article 9.

Voted, at 3.50 P.M., That the Board of Selectmen be requested to ascertain and to determine the limits of the town's land in and adjoining Elm Square.

Took up Article 10.

Voted, at 3.56 P.M., To lay on the table.

Took up Article 11.

Voted, at 4.03 P.M., To lay on the table.

Took up Article 12.

Voted, at 4.04 P.M., To take up Articles 12 and 13 in conjunction.

Voted, at 4.09 P.M., To appropriate the sum of \$600 for two fire alarm boxes, one at the upper end of Morton Street, and one at the junction of Andover and High Streets, Ballard Vale.

Took up Article 14.

Voted, at 4.10 P.M., To indefinitely postpone.

Took up Article 15.

Voted, at 4.11 P.M., To indefinitely postpone.

Took up Article 16.

Voted, at 4.12 P.M., To refer to the Board of Public Works.

Took up Article 17.

Voted, at 4.26 P.M., That by virtue and in pursuance of Chapter 363 of the Acts of 1908, for the purpose mentioned in

Section 5 of Chapter 439 of the Acts of 1887, the Town Treasurer is hereby authorized to issue bonds of the Town in the aggregate principal amount of \$10,000 to be dated May 1, 1914, and payable \$1,000 thereof on the first day of May of each of the years 1915 to 1924 inclusive, bearing interest at a rate not exceeding 4 per cent. per annum, payable semi-annually May 1 and November 1.

The said bonds shall be denominated on the face thereof "Andover Water Loan Act of 1908", shall be signed by the Board of Public Works and countersigned by the Town Treasurer and be in such form and contain such statements not inconsistent with this vote, as the Town Treasurer may determine. The vote stood, affirmative 228, negative 3.

Took up Article 18.

Voted, at 4.32 P.M., That the town discontinue that part of Prospect Hill Road beginning at a point near the house owned by W. H. Higgins to the North Andover line.

Took up Article 19.

Voted, at 4.40 P.M., To indefinitely postpone.

Took up Article 20.

Voted, at 4.41 P.M., To indefinitely postpone.

Took up Article 21.

Voted, at 4.43 P.M., To refer to the Board of Public Works.

Took up Article 22.

Voted, at 4.44 P.M., to refer to the Board of Public Works.

Took up Article 23.

Voted, at 4.53 P.M., To refer to the Board of Public Works to report at the next annual Town Meeting.

Took up Article 24.

Voted, at 4.54 P.M., To indefinitely postpone.

Took up Article 25.

Voted, at 4.55 P.M., To grant permission to the "Syrian Public Cemetery Corporation" to use for cemetery purposes the following described land, to wit: Westerly by Corbett Street, 125 feet;

southerly by land owned by the "United Syrian Society Cemetery Corporation", 250 feet; easterly by land now or formerly of Hanna Skeirik 125 feet; northerly by land now or formerly of Hanna Skeirik 250 feet; the whole being a part of the land formerly granted to the "United Syrian Society Cemetery Corporation".

Took up Article 26.

Voted, at 4.56 P.M., That the pay of the firemen be the same as last year, viz., \$50.00 per year.

Took up Article 27.

Voted, at 4.57 P.M., That the taxes be collected by the Collector, and that he receive one per cent of all moneys collected.

Took up Article 28.

Voted, at 4.58 P.M., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1, 1914, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 29.

Voted, at 4.59 P.M., That all unexpended balances be turned into the treasury.

Took up Article 30.

Voted, at 5.00 P.M., That the report of the Town Officers be accepted and adopted.

Took up Article 31.

Voted, at 5.01 P.M., To raise by taxation \$116,000 and also an amount sufficient to pay the State and County Taxes.

Took up Article 32.

Voted, at 5.12 P.M., To dissolve.

The foregoing is a true copy of the Warrant and of the Officer's return on the same, also a true record of the doings of the meeting.

Attest:

(Signed) GEORGE A. HIGGINS

Town Clerk

RECORDS OF PRECINCT CLERK

Andover, Mass., March 2, 1914.

Polls open at 6 A.M. Ballot box registered 0000. Whole number of male ballots received, 2000. Whole number of female ballots received 150. Polls closed at 2 P.M. Ballot box registered at close, 961, having failed to work correctly. Number of ballots cast, 955, of which 914 were male voters and 41 female. The check lists tallied with the votes cast. Number of male ballots returned to Town Clerk, 1,086, female ballots returned, 109.

DANIEL A. COLLINS,

Precinct Clerk.

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 2, 1914,	\$39000 00
Received from tuition,	691 10
Received from tickets,	219 95

\$39911 05

George M. Bemis, Superintendent,	\$ 435 00
J. Francis Allison, Superintendent,	1249 95
Nathan C. Hamblin, Acting Supt.,	110 52
Eugene V. Lovely, teaching,	1200 01
Harriet A. Foss, teaching,	510 01
Mary L. Smith, teaching,	315 78
Elizabeth M. Loftus, teaching,	738 15
Ruth K. Whiting, teaching,	236 83
James H. Morss, teaching,	1116 73
Margaret C. Kimball, teaching,	398 43
Bernice B. Abbott, teaching,	544 72
Eleanor N. Irving, teaching,	619 75
Bernice G. Stimpson, teaching,	593 92
Eliza Spaulding, teaching,	594 74
Carolyn A. Dean, teaching,	594 74
Annie M. Downes, teaching,	849 98
Joanna P. Simmons, teaching,	584 85
Katherine T. Hannon, teaching,	582 88
Margaret S. Hoyt, teaching,	584 85
E. Mae Chase, teaching,	559 89
Frances Hobbs, teaching,	559 89

<i>Amount carried forward,</i>	\$12981 62
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Appropriation and Receipts,

\$39911 05

<i>Amount brought forward,</i>	\$12981 62
Florence I. Abbott, teaching,	584 85
Adele H. Duval, teaching,	494 75
Florance M. Prevost, teaching,	609 89
Sarah A. Hill, teaching,	121 05
Helen L. Dickinson, teaching,	226 97
Jessie P. Brown, teaching,	217 08
Etta M. Dodge, teaching,	759 83
Helen E. Hartford, teaching,	559 89
Mary Moriarty, teaching,	408 58
Sarah G. Cummings, teaching,	131 57
Lena M. Clark, teaching,	584 85
Mary E. G. Riley, teaching,	399 32
Gertrude Farrington, teaching,	147 76
Grace Hill, teaching,	734 87
Cynthia E. Flint, teaching,	580 32
Cecilia A. Derrah, teaching,	584 85
Ruby S. Copeland, teaching,	584 85
Carrie R. French, teaching,	584 85
Helen W. Battles, teaching,	684 84
Emma L. Ward, teaching,	559 89
Emily F. Carleton, teaching,	656 36
Mildred B. Morris, teaching,	197 36
Mary Bridge, teaching,	197 36
Edith H. Johnson, teaching,	509 84
Ella S. Morrill, teaching,	559 89
Hallie M. Stimpson, teaching,	204 47
Nathan C. Hamblin, teaching,	1239 46
Mabel Brown, teaching,	166 00
Helen R. Roberts, teaching,	298 66
Daisy I. Barrett, teaching,	157 92
Mabel I. Brigham, teaching,	302 61
Helen J. Brown, teaching,	409 88
Winfield W. Lunt, teaching,	600 00
Pauline A. Meyer, teaching,	157 92

<i>Amount carried forward,</i>	\$28200 21
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Appropriation and Receipts,

\$39911 05

<i>Amount brought forward,</i>	\$28200 21
Ruth B. Mitchell, teaching,	302 61
Elsie B. Cheever, teaching,	80 00
Mrs. Charles F. Copp, teaching,	2 50
Alice S. Coutts, teaching,	41 25
Mary Donovan, teaching,	41 75
Gladys Kennedy, teaching,	2 50
Mrs. Grace Thomas, teaching,	12 50
Minnie Hayes, teaching,	2 50
Helena Dooley, teaching,	5 00
Lena A. Dodson, teaching,	35 00
Mary Calnan, teaching,	5 00
Annie McIntosh, matron,	220 80
Ethel M. Eaton, clerk,	465 00
Granville K. Cutler, janitor,	159 00
John Crowley, janitor,	124 00
James A. Eaton, janitor,	360 00
William McEwan, janitor,	180 00
James McGhie, janitor,	385 00
Alfred Melanson, janitor,	88 00
George Flint, janitor,	12 00
George Spickler, janitor,	96 00
Herbert L. White, janitor,	1199 64
J. H. Campion & Co., supplies,	29 24
B. & M. Railroad, transportation,	667 94
Hardy & Cole, labor and lumber,	170 79
Bay State St. Ry., transportation,	810 00
T. A. Holt Co., supplies,	62 45
New England Telephone Co.,	82 43
Scott Paper Co., supplies,	82 61
Smith & Dove Mfg. Co., supplies,	11 10
W. I. Morse, supplies,	109 22
Lawrence Lumber Co., lumber,	22 40
Herbert L. White, labor,	1 00
Arthur R. Lewis, work on school census,	15 00

Amount carried forward,

\$34084 44

Appropriation and Receipts,

\$39911 05

<i>Amount brought forward,</i>	\$34084 44
County of Essex, tuition,	207 00
West Disinfection Co., supplies,	60 50
T. F. Morrissey & Son, team hire,	123 50
Andover Press, printing and supplies,	337 09
Chandler & Barber, supplies,	11 80
James A. Eaton, labor,	6 00
Am. Rattan Reed Co., supplies,	8 50
Frank H. Hardy, agent, brushes,	28 50
New England Reed Co., supplies,	29 38
Cross Coal Co., coal,	1903 93
Wakefield Chemical Co., supplies,	11 00
Lawrence Gas Co., lighting,	187 85
American Express Co.,	8 26
Alvah Wright, transportation,	585 00
C. H. Newton, transportation,	468 00
New England Pub. Co., supplies,	2 50
Alfred Melanson, labor,	1 50
S. K. Ames, supplies,	35 94
Wright's Express,	49 19
Geo. M. Bemis, sundries,	6 79
Remington Typewriter Co., supplies,	20 94
Ira Buxton, supplies,	16 40
John Crowley, labor,	2 00
Valpey Bros., supplies,	1 96
George E. Flint, wood,	7 00
Robert Hutcheson, supplies,	2 29
C. F. Emerson, teaming,	36 38
Franklin H. Stacey, supplies,	26 25
Anderson & Bowman, repairs,	12 45
Macey, Stetson & Morris Co., supplies,	40
W. H. Sylvester, tuning pianos,	4 50
Excelsior Stamp Works,	3 85
John W. Goodhue,	2 00
Buchan & McNally, supplies,	5 63

Amount carried forward,

\$38298 72

Appropriation and Receipts,	\$39911 05
<i>Amount brought forward,</i>	\$38298 72
Hiller & Co., supplies,	3 79
E. McCabe & Co., supplies,	50
Pyrene Co., supplies,	31 60
James Napier, truant officer,	93 24
Neostyle Co., supplies,	15 66
J. E. Whiting, cleaning clocks,	7 90
Andover Coal Co., coal,	495 38
Charlotte A. Baker, wood,	10 00
Albert W. Lowe, supplies,	1 40
H. I. Dallman Co., supplies,	11 75
N. C. Hamblin, sundries,	2 47
F. G. Moore, traveling expenses,	13 14
H. A. Bodwell, traveling expenses,	14 54
Philip L. Ripley, traveling expenses,	16 76
W. D. Walker, M.D., school physician,	190 00
O. P. Chase, supplies,	98
James J. Abbott, wood,	44 00
C. A. Hill & Co., supplies,	60
Milton Bradley Co., supplies,	6 40
Tyer Rubber Co., supplies,	31
A. J. Wilkinson Co., supplies,	8 40
Emerson & Co., supplies,	1 75
Winthrop S. Boutwell, labor,	4 00
Fred H. Shattuck, teaming,	4 00
E. E. Gray, supplies,	19 78
Katherine Berry, teaching,	5 00
J. Francis Allison, sundries,	29 92
Diamond Stamp Co., supplies,	70
W. H. Coleman & Co.,	14 00
Board Public Works, water,	278 75
Morrison & O'Connell, labor,	95
Mabel Brown, teaching,	6 00
G. F. Gurney Co., supplies,	6 25
J. L. Hammett Co., supplies,	9 50
<i>Amount carried forward,</i>	\$39648 14

Appropriation and Receipts,		\$39911 05
<i>Amount brought forward,</i>	\$39648 14	
H. R. Guild, supplies,	15 00	
C. S. Chase & Co., supplies,	35 00	
J. H. Playdon, plants,	12 75	
Buchan & McNally, supplies,	35	
Smith & Manning, supplies,	88	
Theo Muise, repairs,	2 00	
S. T. Shattuck, teaming,	75	
Treat Hardware Co., supplies,	27 00	
Allen F. Abbott, repairs,	4 05	
W. S. Holt & Son, supplies,	11 75	
Edward E. Babb & Co., supplies,	2 63	
William Knipe & Co., supplies,	1 98	
Poor & Riley, supplies,	1 24	
Gordon C. Cannon, diplomas,	2 75	
Joseph Chambers, labor,	7 50	
Nathan R. Bailey, wood,	17 00	
Parker & Co., supplies,	20	
Benjamin Jaques, wood,	8 00	
	<hr/>	
Total expenditure,	\$39798 97	
Transferred to Schoolhouses,	112 08	
	<hr/>	
	\$39911 05	\$39911 05

INDUSTRIAL SCHOOL

Appropriation, March 2, 1914,		\$500 00
City of Lawrence,	\$ 62 51	
Balance unexpended,	437 49	
	<hr/>	
	\$500 00	\$500 00

SCHOOLHOUSES

Appropriation, March 2, 1914	\$2500 00
Received from Insurance,	202 66
Received from sales,	1 25
Transferred from Schools,	112 08
Transferred from Books and Supplies,	94 87

\$2910 86

Buchan & McNally, supplies and repairs,	\$ 142 05
Allen F. Abbott, repairs,	41 70
New England Grate Co., supplies,	42 00
H. C. Mason, repairs,	6 75
American Seating Co., supplies,	199 01
James S. May, painting,	306 00
William Knipe & Co., supplies,	149 36
W. H. Coleman & Co., repairs,	18 20
Thomas O'Brine & Co., supplies,	13 50
D. Donovan & Son, repairs and painting,	46 05
Buchan & Francis, supplies,	98 43
Ira Buxton, supplies,	9 70
J. W. Richardson, repairs,	358 70
M. T. Walsh, repairs,	123 85
C. A. Hill & Co., repairs,	11 92
John M. Derrah, labor,	3 50
Alfred Melanson, labor,	1 00
Frank E. Dodge, mason work,	40 45
James C. Souter, repairs,	57 01
H. Nettle & Co., supplies,	15 00
Andrew Wilson Co., repairs,	13 38
Edward C. Moody, labor,	2 00
Joseph Bourdelais, grading,	7 00
J. E. Pitman, repairs,	584 88

Amount carried forward, \$2291 44

Appropriation and Receipts,		\$2910 86
<i>Amount brought forward,</i>	\$2291 44	
Smith & Dove Mfg. Co., supplies,	27 18	
W. H. Pearce, painting,	11 10	
Merrimac Boiler Works, repairs,	19 17	
C. L. Alexander & Son, supplies,	1 50	
Samuel Smith Co., repairs,	20 00	
B. & M. Railroad, freight,	9 39	
Joseph Melanson, labor,	2 00	
Lawrence Electrical Supply Co., supplies,	59 65	
Chandler & Barber, supplies,	5 05	
T. F. Morrissey & Son, team hire,	2 50	
James B. Craik, labor,	4 00	
Mrs. Joseph Melanson, labor,	1 50	
Hardy & Cole, repairs on Bailey School,	202 66	
John Riley, labor,	3 50	
Herbert L. White, labor,	6 00	
	<hr/>	
Total expenditure,	\$2666 64	
Transferred to North Schoolhouse,	243 40	
Balance unexpended,	82	
	<hr/>	
	\$2910 86	\$2910 86

HIGH SCHOOL PLANS

Appropriation, March 2, 1914,		\$500 00
Myerscough & Buchan,	\$ 35 00	
Perley F. Gilbert,	100 00	
E. W. Pitman Co.,	75 00	
N. C. Hamblin,	13 16	
J. F. Allison,	13 16	
H. A. Bodwell,	13 16	
	<hr/>	
Total expenditure,	\$249 48	
Balance unexpended,	250 52	
	<hr/>	
	\$500 00	\$500 00

NORTH DISTRICT SCHOOLHOUSE ADDITION

Appropriation, March 2, 1914,		\$2500 00
Transferred from Schoolhouses,		243 40
Hardy & Cole,	\$2009 00	
Buchan & McNally,	485 00	
Addison B. LeBoutillier,	249 40	
	<hr/>	
	\$2743 40	\$2743 40

SCHOOL BOOKS AND SUPPLIES

Appropriation, March 2, 1914,	\$2400 00
Receipts,	13 54

\$2413 54

Edward E. Babb & Co.,	\$ 789 60
Milton Bradley Co.,	198 37
J. L. Hammett Co.,	257 20
Ginn & Co.,	234 41
Educational Pub. Co.,	5 30
Tyer Rubber Co.,	9 50
American Book Co.,	218 16
C. F. Winchester,	12 22
D. C. Heath & Co.,	138 06
Remington Typewriter Co.,	10 75
Houghton Mifflin Co.,	43 56
Adams, Cushing & Foster,	80 32
Kenney Bros., & Wolkins,	24 75
Allyn & Bacon,	66 00
Little, Brown & Co.,	37 83
D. H. Knowlton & Co.,	6 75
Boston Pencil Pointer Co.,	10 00
Silver Burdett & Co.,	57 14
Albert W. Lowe,	13 55
E. V. Lovely,	1 50
American Humane Society,	2 21
A. S. Barnes & Co.,	1 28
A. N. Palmer & Co.,	14 13
D. C. McIntosh,	7 79
Benjamin H. Sanborn,	17 50
E. W. A. Rowles,	9 55
David Farquhar,	18 90

<i>Amount carried forward,</i>	\$2286 33
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Appropriation and Receipts,		\$2413 54
<i>Amount brought forward,</i>	\$2286 33	
D. Appleton & Co.,	12 50	
The Andover Press,	7 95	
L. E. Knott Co.,	11 89	
	<hr/>	
Total expenditure,	\$2318 67	
Transferred to Schoolhouses,	94 87	
	<hr/>	
	\$2413 54	<hr/> \$2413 54

MISCELLANEOUS DEPARTMENTS

TOWN OFFICERS

Appropriation, March 2, 1914		\$6500 00
Geo. A. Higgins, treasurer,	\$ 600 00	
Geo. A. Higgins, town clerk and clerk of selectmen,	900 00	
Walter S. Donald, selectman, assessor and overseer of poor,	600 00	
Charles Bowman, selectman, assessor and overseer of poor,	600 00	
Harry M. Eames, chairman selectmen, as- sessor and overseer of poor,	700 00	
Walter H. Coleman, auditor,	50 00	
John S. Robertson, auditor,	50 00	
Nesbit G. Gleason, auditor,	50 00	
Harry A. Ramsdell, moderator,	10 00	
Election officers, town meeting,	75 00	
Election officers, primaries, Precinct 1,	55 00	
Election officers, primaries, Precinct 2,	40 00	
Election officers, State election, Precinct 1,	75 00	
Election officers, State election, Precinct 2,	40 00	
Registrars of voters,	98 00	
John W. Bell, collector,	1596 37	
Dr. J. J. Daly, town physician,	200 00	
Daniel J. Murphy, town counsel,	352 49	
Total expenditures,	\$6091 86	
Balance	408 14	
	<hr/>	<hr/>
	\$6500 00	\$6500 00

TREE WARDEN

Appropriation, March 2, 1914,		\$250 00
Transferred from Gypsy and Browntail Moth Dept.,		89 53
Michael O'Connor, labor,	\$ 2 25	
Patrick Tucker, labor,	2 25	
T. F. Morrissey & Son, use of teams	4 00	
Walter I. Morse, supplies,	2 35	
S. T. Shattuck, teaming,	4 03	
J. H. Playdon, arsenate lead,	108 22	
J. H. Baker, labor,	55 97	
Frank Mealey, labor,	70 17	
William Broderick, labor,	70 17	
Ira Buxton, repairs and supplies,	1 70	
Charles Spalding, labor,	7 50	
Fire Department, use of horses,	10 92	
	<hr/>	<hr/>
Total expenditures,	\$339 53	\$339 53

MISCELLANEOUS

Appropriation, March 2, 1914		\$2800 00
New England Tel. and Tel. Co.	\$ 8 63	
H. M. Larrabee, return of births,	25	
W. & L. E. Gurley, testing weights,	4 78	
James Saunders, retired veteran,	300 00	
Arthur Bliss, rent P. O. Box,	60	
J. H. McDonald, rent P. O. Box,	1 80	
Lilla D. Scott, transfers real estate,	47 65	
Andover National Bank, safe deposit box	5 00	
John A. Riley, janitor,	7 70	
T. F. Morrissey,	29 50	
James H. Green,	13 00	
T. F. Morrissey, team for sealer,	4 00	
Selectmen, carfare and expenses attending hearings, etc.,	35 75	
Geo. W. Foster, looking up titles and deeds	27 00	
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<i>Amount carried forward,</i>	\$485 66	

Appropriation, March 2, 1914,		\$2800 00
<i>Amount brought forward,</i>	\$485 66	
American Express Co.,	1 09	
Edith Sellars, jury list,	1 00	
John H. Clinton,	10 00	
The Fairbanks Co., repairing scales,	7 04	
Myerscough & Buchan,	23 00	
B. & M. R. R., trip tickets,	51 75	
Madeleine Hewes, copying records,	48 00	
Dr. J. P. Torrey, return of births,	8 25	
Dr. E. C. Conroy, return of births,	1 00	
Dr. C. W. Scott, return of births,	75	
Dr. J. J. Daly, return of births,	6 75	
Dr. John D. Clark, return of births,	4 25	
Dr. C. E. Abbott, return of births,	2 25	
Dr. W. D. Walker, return of births,	4 25	
Dr. E. D. Lane, return of births,	3 50	
E. M. Lundgren, return of deaths,	22 25	
M. J. Mahoney, return of deaths,	15 50	
Geo. A. Higgins, supplies,	2 50	
Banker & Tradesman,	5 00	
W. C. Crowley, sealer weights & measures	169 07	
Ira B. Hill, field driver,	25 00	
W. F. Gledhill, fish warden,	10 00	
E. W. Prescott, return of Corporation shares,	88 34	
Joseph Chambers,	18 00	
Horace S. Neal, et al, brush fires,	147 00	
J. H. Baker, et al, brush fires,	475 19	
Michael Brennan, et al, brush fires,	5 00	
Fred Collins, et al, brush fires,	5 00	
Fred Adams, et al, brush fires,	8 50	
William Baker, et al, brush fires,	4 50	
William Burke, et al, brush fires,	12 00	
T. F. Morrissey & Son, teams for brush fires,	22 00	
Arthur Bliss et al, brush fires,	16 75	
A. P. Wright et al, brush fires,	18 00	
Charles Shattuck et al, brush fires,	5 50	
<i>Amount carried forward,</i>	\$1733 64	

Appropriation, March 2, 1914,		\$2800 00
<i>Amount brought forward,</i>	\$1733 64	
Charles Emerson, brush fires,	1 00	
Charles Buchan et al, brush fires,	3 50	
L. E. Chase, brush fires,	60	
Geo. W. Kane et al, brush fires,	64 50	
A. E. Curtis, et al, brush fires,	4 00	
Joseph Dumont et al, brush fires,	215 50	
Walter I. Morse et al, brush fires,	5 00	
Edward Daley et al, brush fires,	6 50	
Fire Department, supplies, brush fires,	18 38	
S. T. Shattuck, teams, brush fires,	10 50	
P. Donovan et al, brush fires,	37 25	
J. P. West, coffee, brush fires,	20	
C. W. Flanders, brush fires,	1 80	
W. H. Coleman & Co., chemicals, brush fires	14 55	
C. A. Hill et al, brush fires,	7 50	
George Carter et al, brush fires,	15 00	
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Total expenditure,	\$2139 42	
Transferred to Insurance,	41 91	
Balance	618 67	
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	\$2800 00	\$2800 00

STREET LIGHTING

Appropriation, March 2, 1914,		\$6000 00
Lawrence Gas Co.,	\$5805 82	
Balance,	194 18	
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	\$6000 00	\$6000 00

INSURANCE

Appropriation, March 2, 1914		\$850 00
Oct. 26 Dividends,		97 24
Oct. 29 Dividends,		96
Dec. 31 Transferred from Miscellaneous,		41 91
Smart & Flagg,	\$990 11	
	<hr/>	
Total expenditure,	\$990 11	\$990 11

FIRE DEPARTMENT

Appropriation, March 2, 1914,	\$8250 00
Received from use of horses,	3366 13
Received from sale of manure,	20 00
Received from sale of harnesses,	33 60
	<hr/>
	\$11669 73

RUNNING EXPENSES

Lester Hilton, chauffeur,	\$ 902 00
Charles C. Serra, chauffeur,	1055 00
Hamblett Machine Co., supplies,	3 00
William H. Knipe, labor and supplies,	121 77
Andover Press, printing,	33 65
Lawrence Gas Co., gas and electricity,	107 78
W. H. Gibson, laundry,	39 91
E. H. Shattuck, labor,	4 00
George Ash, labor,	3 00
Charles F. Emerson,	9 00
C. A. Hill & Co., labor and supplies,	58 23
State Inspector of Boilers,	10 00
T. F. Morrissey, horses, etc.,	66 64
American Express Co., express,	2 83
Wright's Express, express,	70
Gamewell Fire Alarm & Tel. Co., supplies,	85 68
Niagara Searchlight Co., supplies,	11 08
S. T. Shattuck, teaming, etc.,	46 88
Payroll, Engine Co. No. 1,	814 58
Payroll, Engine Co. No. 2,	485 00
Horace Neal, janitor No. 2,	90 00
Allan Simpson, engineer,	75 00
Lewis T. Hardy, chief,	150 00
Benjamin Brown, rubber boots,	15 00
Ira Buxton, labor and supplies,	89 03
Ira Buxton, engineman,	72 42
Myerscough & Buchan, supplies,	8 24
Haynes & Juhlmann, grain,	103 75

<i>Amount brought forward,</i>	<hr/> \$4464 17
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Appropriation and Receipts,

\$11669 73

<i>Amount brought forward,</i>	\$4464 17
Dayton Tire Co., tires,	298 83
E. McCabe & Co., repairs,	2 10
R. E. Hardy, labor,	5 00
Fred Adams, labor,	10 00
John Haggerty, driver,	780 00
John Haggerty, telephone,	29 68
Fred Collins, labor,	1 50
Walter I. Morse, supplies,	242 17
Walter I. Morse, engineer,	75 00
Hardy & Cole, labor and supplies,	896 60
American LaFrance Engine Co., supplies,	42 56
Somerville Brush Co., supplies,	9 21
Allen F. Abbott labor,	1 50
F. H. Stacey, medicine for horses,	7 40
New Eng. Tel. & Tel. Co., telephone,	44 67
Fred A. Gould, hay,	45 25
J. E. Whiting, repairs,	6 00
Dr. C. H. Playdon, veterinary services,	18 00
W. H. Coleman & Co., labor and supplies,	195 87
Andover Coal Co., coal,	278 42
Buchan & McNally, labor and supplies,	81 08
Buchan & Francis, supplies,	13 50
Tyer Rubber Co., blowing whistle,	50 00
Tyer Rubber Co., repairs on fire whistle,	79 93
E. W. Boutwell, hay,	25 25
S. E. Walker, repairs on engine house, No. 2	51 28
T. A. Holt Co., grain and supplies,	127 98
Smith & Manning, grain and supplies,	173 77
J. H. Champion, grain and supplies,	57 08
John Collins, driver,	766 00
William Collins, driver,	565 00
Daniel P. Webster, driver,	195 00
William Baker, driver,	56 00
Harry Hayward, driver,	312 00
<i>Amount carried forward,</i>	<hr/> \$10007 80

Appropriation and Receipts,		\$11669 73
<i>Amount brought forward.</i>	\$10207 80	
O. P. Chase, supplies,	4 20	
F. E. Morse, labor,	3 00	
Frank Carse, labor,	34 19	
John Shevlin, labor,	3 00	
Combination Ladder Co., coats,	87 00	
Charles A. Jameson, hay,	32 48	
George Dufton, hay,	34 50	
James J. Abbott, hay,	35 25	
Samuel Thomes, hay,	31 87	
Walter S. Donald, hay,	79 06	
Anderson & Bowman, shoeing, etc.,	125 45	
A. M. Colby, painting, etc.,	47 25	
M. T. Walsh, supplies,	60	
Ralph A. Bailey, hay,	95 88	
Morrison & O'Connell, shoeing & repairs,	103 60	
P. J. Daly, grain, etc.,	170 27	
Poor & Riley, grain, etc.,	105 34	
George D. Ward, hay,	96 57	
Benjamin Jaques, wood,	4 00	
Parker & Co., medicine,	50	
Louis W. Bills, labor,	16 90	
J. F. Morse, labor,	4 00	
Crowley & Co., medicine,	1 20	
Albert W. Lowe, medicine,	3 00	
J. F. Winchester, veterinary services,	21 50	
Newton Holt, labor,	2 00	
M. O'Connor, labor,	4 00	
Board of Public Works, water,	550 00	
	<hr/>	<hr/>
Total expenditure,	\$11704 41	
Overdrawn,		34 68
	<hr/>	<hr/>
	\$11704 41	\$11704 41

COMBINATION HOSE AND MOTOR PUMP TRUCK

Appropriation, March 2, 1914,		\$8900 00
Received from sale of apparatus,		500 00
American LaFrance Fire Engine Co.,	\$9000 00	
W. H. Coleman & Son, supplies,	22 05	
J. E. Steadman, chauffeur,	378 00	
	<hr/>	
Total expenditure,	\$9400 05	
Overdrawn,		05
	<hr/>	<hr/>
	\$9400 05	\$9400 05

FIRE ALARM BOXES

Appropriation, March 2, 1914,		\$600 00
Gamewell Fire Alarm & Tel. Co., 2 boxes,	487 50	
W. H. Coleman & Co., labor and supplies,	94 65	
Fred Adams, labor,	5 00	
F. E. Morse, labor,	1 00	
S. T. Shattuck, teaming,	50	
Hardy & Cole, lumber,	6 35	
	<hr/>	
Total expenditure	\$595 00	
Balance,	5 00	
	<hr/>	<hr/>
	\$600 00	\$600 00

POLICE

Appropriation, March 2, 1914,		\$4200 00
Received from County,		41 00
Frank M. Smith, chief,	\$1100 00	
Frank M. Smith, carfare and food for prisoners,	30 14	
James Napier, night watch,	861 28	
William L. Frye, night watch,	859 28	
Daniel P. Webster,	645 35	
Henry W. Platt, police duty,	72 00	
	<hr/>	
<i>Amount carried forward,</i>	\$3568 05	

Appropriation and Receipts,		\$4241 00
<i>Amount brought forward,</i>	\$3568 05	
Thomas F. Dailey, police duty,	72 42	
T. F. Morrissey & Son, teams,	21 75	
Myerscough & Buchan,	104 00	
M. T. Welch, police duty,	9 00	
David M. May, police duty,	10 00	
John A. Riley, police duty,	2 00	
E. F. Conkey, police duty,	11 00	
Edwin L. Brown, police duty,	2 00	
Frank Carse, police duty,	13 25	
Wright's Express,	3 00	
American Express,	21	
Andover Press, printing,	12 76	
Smith & Manning, supplies,	1 40	
Leonard Saunders, police duty,	57 50	
Leonard Saunders, killing dogs,	41 00	
F. H. Stacey, supplies,	3 40	
New Eng. Tel. & Tel. Co.,	87 58	
Walter I. Morse, supplies,	7 60	
C. A. Hill & Co., supplies,	7 95	
Patrick Ryan,	4 00	
Dr. J. D. Clark,	3 00	
Frank L. Cole, uniforms,	62 64	
C. M. Newton, police duty,	6 00	
Chester H. Lawrence, police duty,	8 75	
C. N. Boutwell, police duty,	9 00	
Ira Buxton,	25	
J. W. Mooar, police duty,	7 50	
B. & M. R. R., trip ticket,	17 25	
Thomas Peters, police duty,	3 00	
Geo. C. Dunnells, police duty,	34 10	
W. H. Coleman & Co.,	1 00	
F. E. Morse, police duty,	1 00	
Total expenditure,	\$4193 36	
Balance,	47 64	
	<hr/>	
	\$4241 00	\$4241 00

TOWN HOUSE

Appropriation, March 2, 1914,		2300 00
Lawrence Gas Co., gas and electricity,	\$ 219 47	
George W. Mears, janitor,	724 25	
Frank H. Hardy, supplies,	19 25	
Anderson & Bowman, repairs,	65	
Somerville Brush Co., supplies,	3 74	
J. W. Richardson, labor,	5 40	
W. H. Gibson, laundry,	1 98	
Ira Buxton, labor and supplies,	9 70	
Frank M. Foster, repairing settees,	10 45	
Andover Ice Co., ice,	6 00	
T. A. Holt Co., supplies,	7 73	
J. E. Whiting, repairing clock,	1 00	
James S. May, janitor,	19 15	
Board Public Works, water,	8 62	
Buchan & Francis, supplies,	36 50	
Buchan & McNally, supplies,	50	
Walter I. Morse, supplies,	22 84	
Myerscough & Buchan, supplies,	1 00	
C. A. Hill & Co., labor and supplies,	31 66	
E. W. Pitman Co., repairs on hall,	205 45	
Andrew Wilson Co.,	4 15	
H. I. Dallman Co., disinfectant,	3 25	
William Knipe, labor,	57 64	
American Express Co., repairs,	64	
W. H. Coleman & Co., renovating switch- board,	100 00	
Washburn Parizone Co.,	8 33	
Sadie M. Hobbs, laundry,	5 70	
Andover Coal Co., coal,	240 00	
Total expenditure,	\$1755 46	
Balance,	544 54	
	<hr/>	<hr/>
	\$2300 00	\$2300 00

PRINTING AND STATIONERY

Appropriation, March 2, 1914,		\$1250 00
Hobbs & Warren, supplies,	\$ 62 78	
Burroughs Adding Machine Co., supplies,	5 36	
George B. Graff Co., supplies,	4 38	
A. W. Brownell, printing,	9 75	
P. B. Murphy, printing,	9 40	
Andover Press, printing,	741 65	
A. Bliss, envelopes,	106 48	
John H. McDonald, envelopes,	16 12	
Johnson's Bookstore, supplies,	7 50	
R. & L. Gay, supplies,	35	
Henry M. Meek, printing,	2 50	
Auto List Publishing Co., auto lists,	15 00	
The Birmingham Pen Co., pens,	8 00	
Tyer Rubber Co., rubber bands,	1 78	
Wakefield Daily Item, printing,	80	
	<hr/>	
Total expenditure,	\$ 991 85	
Balance	258 15	
	<hr/>	
	\$1250 00	\$1250 00

STATE TAX

Appropriation, March 2, 1914,		\$20262 74
Nov. 16 Frederick W. Mansfield, State Treas.,	\$20262 74	
	<hr/>	
	\$20262 74	\$20262 74

COUNTY TAX

Appropriation, March 2, 1914,		\$13279 22
Nov. 2 David I. Robinson, Co. Treas.,	\$13279 22	
	<hr/>	
	\$13279 22	\$13279 22

DOG TAX

Received from David I. Robinson, County Treas.,	\$696 76	
Dec. F. S. Boutwell, Treas. Memorial		
Hall,	\$696 76	
	<hr/>	<hr/>
	\$696 76	\$696 76

G. A. R. POST 99

Appropriation for rent, Acts 1913 Chap. 62,		\$50 00
June 8, Moses L. Farnham, Quartermaster,	\$50 00	
	<hr/>	<hr/>
Total expenditure,	\$50 00	\$50 00

MEMORIAL DAY

Appropriation, March 2, 1914,		\$350 00
June 1, Moses L. Farnham, Quartermaster,	\$350 00	
	<hr/>	<hr/>
Total expenditure,	\$350 00	\$350 00

SPRING GROVE CEMETERY

Appropriation, March 2, 1914,		\$1000 00
Received from sale of Lots,		447 00
		<hr/>
		\$1447 00

John D. Newall,	\$ 30 00
John Fraize, labor,	3 75
Philip Allicon, labor,	330 38
E. F. Conkey, labor,	3 00
The D. W. Pingree Co., lumber,	11 24
C. C. Stickney, labor,	9 00
Dennis Sweeney, labor,	2 04
John Franklin, surveying,	172 00
Walter Stickney, labor,	223 25
David O'Connell, labor,	5 00

Amount carried forward, \$789 66

Appropriation and Receipts,		\$1447 00
<i>Amount brought forward,</i>	\$789 66	
Andover Press, printing,	23 50	
George Dumont, team and labor,	145 00	
Walter I. Morse, supplies,	30 21	
Charles Shaw, labor,	32 00	
J. H. Playdon, shrubs,	15 00	
T. F. Morrissey & Son, team,	2 50	
Joseph Dearanais, labor,	181 00	
Geo. W. Foster, making and recording		
deeds,	15 00	
Anderson & Bowman, supplies,	2 25	
O. W. Vennard, superintendent,	200 00	
	<hr/>	
Total expenditure,	\$1436 12	
Balance,	10 88	
	<hr/>	
	\$1447 00	\$1447 00

MEMORIAL HALL LIBRARY

Appropriation, March 2, 1914,		\$2300 00
Dec. 31, F. S. Boutwell, Treas. Memorial		
Hall,	\$2300 00	
	<hr/>	
	\$2300 00	\$2300 00

HAY SCALES

Appropriation, March 2, 1914,		\$100 00
Hardy & Cole, repairs,	\$ 6 39	
J. E. Pitman, repairs,	2 88	
Ira Buxton, town weigher,	100 00	
	<hr/>	
Total expenditure,	\$109 27	
Overdrawn,		9 27
	<hr/>	
	\$109 27	\$109 27

NOTES GIVEN

Mar. 23, Andover National Bank, Note No. 21, 8 mos.,	\$10000 00	
Mar. 23, Andover National Bank, Note No. 22, 8 mos.,	10000 00	
May 5, Andover National Bank, Note No. 23, 6 mos.,	15000 00	
June 18, Andover National Bank, Note No. 24, 5 mos.,	15000 00	
July 23, Andover National Bank, Note No. 25, 4 mos.,	20000 00	
Total amount borrowed,	<hr/>	\$70000 00

NOTES PAID

Nov. 7, Andover National Bank, Note No. 23,	\$15000 00	
Nov. 18, Andover National Bank, Note No. 24,	15000 00	
Nov. 24, Andover National Bank, Note No. 21,	10000 00	
Nov. 24, Andover National Bank, Note No. 22,	10000 00	
Nov. 27, Andover National Bank, Note No. 25,	20000 00	
Total amount notes paid,	<hr/>	\$70000 00

PUBLIC DUMP

Appropriation, March 2, 1914,		\$75 00
Olaf Benson, care dump,	75 00	
Total expenditure,	<hr/>	<hr/>
	\$75 00	\$75 00

INTEREST

Appropriation, March 2, 1914,	\$14000 00
Feb. 19, Geo. A. Higgins, Treas., paid 1 Water coupon,	\$ 20 00
Feb. 27, Geo. A. Higgins, Treas., paid 18 Water coupons,	360 00
Mar. 25, Bureau of Statistics, Notes No. 21, 22,	4 00
Mar. 28, Andover National Bank, Int. on Notes 21, 22,	474 67
Mar. 30, Old Colony Trust Co., 27 Water coupons,	540 00
Mar. 30, Old Colony Trust Co., 3 Sewer coupons,	60 00
Mar. 30, Free Christian Society, 2 Sewer coupons,	40 00
April 4, Geo. A. Higgins, Treas., paid 19 Water coupons,	332 50
April 28, Geo. A. Higgins, Treas., paid 35 Andover Loan Act coupons,	700 00
May 7, Geo. A. Higgins, Treas., paid 33 Water coupons,	660 00
May 8, Bureau Statistics, Note No. 23,	2 00
May 11, Andover National Bank, Int. on Note No. 23,	258 75
May 20, Geo. A. Higgins, Treas., paid 5 Water coupons,	100 00
June 3, Geo. A. Higgins, Treas., paid 40 Water coupons, 17½,	700 00
June 3, Geo. A. Higgins, Treas., paid 28 Water coupons, 20,	560 00
June 3, Geo. A. Higgins, Treas., paid 9 Water coupons, 20,	180 00
June 22, Bureau Statistics, Note No. 24,	2 00
June 23, Andover National Bank, Int. on Note No. 24,	200 42
<i>Amount carried forward,</i>	\$5194 34

Appropriation, March 2, 1914,	\$14000 00
<i>Amount brought forward,</i>	\$5194 34
June 23, Geo. A. Higgins, Treas., paid 15 Sewer coupons,	300 00
June 23, Geo. A. Higgins, Treas., paid 5 Water coupons,	100 00
June 24, Geo. A. Higgins, Treas., paid 7 Water coupons,	140 00
July 3, Geo. A. Higgins, Treas., paid 4 Schoolhouse coupons,	80 00
July 22, Geo. A. Higgins, Treas., paid 2 Water, 1 Sewer coupons,	60 00
July 27, Bureau Statistics, Note No. 25,	2 00
July 28, Andover National Bank, Int. on Note No. 25,	256 67
Aug. 26, Old Colony Trust Co., 18 Water coupons,	360 00
Sept. 28, Old Colony Trust Co., 26 Water coupons,	520 00
Sept. 28, Old Colony Trust Co., 3 Sewer coupons,	60 00
Oct. 3, Geo. A. Higgins, Treas., paid 18 Water coupons, 17½,	315 00
Oct. 3, Geo. A. Higgins, Treas., paid 2 Water coupons,	40 00
Oct. 30, Geo. A. Higgins, Treas., paid 35 Andover Loan Act coupons,	700 00
Oct. 30, Geo. A. Higgins, Treas., paid 10 Water coupons,	200 00
Nov. 5, Geo. A. Higgins, Treas., paid 33 Water coupons,	660 00
Nov. 21, Geo. A. Higgins, Treas., paid 7 Water coupons,	140 00
Dec. 3, Geo. A. Higgins, Treas., paid 38 Water coupons, 17½	665 00
Dec. 5, Geo. A. Higgins, Treas., paid 18 Water coupons,	360 00
<i>Amount carried forward,</i>	<hr/> \$10153 01

Appropriation, March 2, 1914,		\$14000 00
<i>Amount brought forward,</i>	\$10153 01	
Dec. 5, Geo. A. Higgins, Treas., paid 18 Sewer coupons,	360 00	
Dec. 9, Geo. A. Higgins, Treas., paid 2 Sewer coupons,	40 00	
Dec. 9, Geo. A. Higgins, Treas., paid 18 Water coupons,	360 00	
Dec. 24, Geo. A. Higgins, Treas., paid 3 Water coupons,	60 00	
Dec. 31, Geo. A. Higgins, Treas., paid 1 Sewer coupon,	20 00	
1915		
Jan. 19, Geo. A. Higgins, Treas., paid 1 Water coupon,	20 00	
Total expenditure,	\$11013 01	
Balance,	2986 99	
	<hr/>	
	\$14000 00	\$14000 00

REDEMPTION OF BONDS

Appropriation, March 2, 1914, Water Bonds,	\$10000 00
Appropriation, March 2, 1914, School House Bonds,	4000 00
Appropriation, March 2, 1914, Andover Loan Act Bonds,	5000 00
	<hr/>
	\$19000 00
Mar. 30, Old Colony Trust Co., Water Bond, No. 284,	\$1000 00
April 4, Geo. A. Higgins, Treas., paid Water Bond, No. 212,	1000 00
June 3, Geo. A. Higgins, Treas., paid Water Bond No. 236,	1000 00
June 3, Geo. A. Higgins, Treas., paid Water Bond No. 246,	1000 00
	<hr/>
<i>Amount carried forward,</i>	\$4000 00

Appropriations, March 2, 1914,		\$19000 00
<i>Amount brought forward,</i>	\$4000 00	
July 3, Geo. A. Higgins, Treas., paid School House Bonds No. 37, 38, 39, 40,	4000 00	
Aug. 26, Geo. A. Higgins, Treas., paid Water Bond No. 313,	1000 00	
Oct. 30, Geo. A. Higgins, Treas., paid Andover Loan Act Bond Bonds No. 6, 7, 8, 9, 10,	5000 00	
Nov. 5, Geo. A. Higgins, Treas., paid Water Bonds No. 121, 122, 123, 124, 125,	5000 00	
Total expenditure,	\$19000 00	\$19000 00

WATER DEPARTMENT MAINTENANCE

Appropriation, March 2, 1914,		\$10000 00
Feb. 9, Geo. A. Higgins, Treas., paid Board Public Works,	\$ 1000 00	
Mar. 9, Geo. A. Higgins, Treas., paid Board Public Works,	1500 00	
April 11, Geo. A. Higgins, Treas., paid Board Public Works,	1500 00	
Aug. 31, Geo. A. Higgins, Treas., paid Board Public Works,	2000 00	
Sept. 28, Geo. A. Higgins, Treas., paid Board Public Works,	1000 00	
Oct. 20, Geo. A. Higgins, Treas., paid Board Public Works,	2000 00	
Dec. 7, Geo. A. Higgins, Treas., paid Board Public Works,	500 00	
Dec. 30, Geo. A. Higgins, Treas., paid Board Public Works,	500 00	
Total expenditure,	\$10000 00	\$10000 00

WATER DEPARTMENT CONSTRUCTION

Appropriation, March 2, 1914,		\$1500 00
Dec. 30, Geo. A. Higgins, Treas., paid		
Board Public Works,	\$1500 00	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

WATER DEPARTMENT SINKING FUND

Appropriation, March 2, 1914,		\$750 00
Dec. 15, Geo. A. Higgins, Treas., paid		
Willis B. Hodgkins, Treas.		
Sinking Funds,	\$750 00	
	<hr/>	<hr/>
Total expenditure,	\$750 00	\$750 00

SEWER DEPARTMENT MAINTENANCE

Appropriation, March 2, 1914,		\$1500 00
Aug. 14, Geo. A. Higgins, Treas., paid		
Board Public Works,	\$500 00	
Oct. 26, Geo. A. Higgins, Treas., paid		
Board Public Works,	500 00	
Dec. 30, Geo. A. Higgins, Treas., paid		
Board Public Works,	500 00	
	<hr/>	<hr/>
Total expenditure,	\$1500 00	\$1500 00

SEWER DEPARTMENT SINKING FUND

Appropriation, March 2, 1914,		\$1000 00
Dec. 15, Willis B. Hodgkins, Treasurer		
Sinking Funds,	\$1000 00	
	<hr/>	<hr/>
Total expenditure,	\$1000 00	\$1000 00

BOARD OF HEALTH

Appropriation, March 2, 1914,		\$1000 00
Dr. C. E. Abbott, clerk,	\$ 75 00	
B. T. Haynes, salary,	50 00	
Franklin H. Stacey, salary,	50 00	
Dr. C. E. Abbott, fumigating,	90 00	
B. T. Haynes, expenses,	3 20	
F. H. Stacey, supplies,	20 64	
F. H. Stacey, milk inspector,	75 00	
Charles H. Newton, inspecting cattle,	252 00	
Charles H. Newton, inspecting meat,	232 00	
W. H. Merrill, consultation,	7 00	
F. E. Bailey & Co., supplies,	3 45	
Andover Press, printing,	14 00	
Dr. H. M. Larrabee,	10 00	
F. H. Thomas Co.,	11 00	
Dr. W. D. Walker, fumigating,	4 00	
Board Public Works, labor,	9 90	
Mass. Experiment Station, supplies,	3 00	
Joseph P. Nolan, inspector plumbing,	68 00	
	<hr/>	<hr/>
Total expenditure,	\$ 978 19	
Balance,	21 81	
	<hr/>	<hr/>
	\$1000 00	\$1000 00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1914.

During the past year, some much-needed repairs on the Almshouse have been made. The attic windows, the sills and sashes of many being decayed, have been thoroughly repaired and painted, together with sixty-nine pairs of blinds, also the outside woodwork painted, the brick walls pointed, the upper hall of the women's part painted, and the inmates' dining-room which formerly was in the basement is now on the first floor, making everything more compact and comfortable. The shed has been shingled, the barn painted, and externally and internally Andover has a home for her poor that is second to none in the State, not only in its neatness and order, but also in the care, attention, and sympathy bestowed upon each and all of the inmates by our Superintendent and Matron, Mr. and Mrs. Swanton, who still remain with us.

During the coming year quite a number of changes will have to be made, owing to orders given by State Inspector Carey. Fire escapes are to be extended, windows leading to same to open outward, as well as all doors of egress, and we recommend an appropriation of \$800 for Almshouse repairs.

Owing to the continued dull, stagnant condition of business, and the consequent lack of employment together with the continued increase in the price of most if not all the necessities of life, the calls for relief out continue to increase day by day, and we ask that the sum of \$4700 be appropriated.

To meet the requirements of Chapter 763, Acts of 1913, an Act for suitably aiding mothers with their dependent children, we would ask that the sum of \$500 be appropriated.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Overseers of Poor

ALMSHOUSE EXPENSES

Appropriation, March 2, 1914,	\$4000 00
Receipts from Town Farm,	454 20

\$4454 20

N. L. Harwood, supplies,	\$ 76 34
H. Bruckmann, grain,	152 52
Valpey Bros., provisions,	299 40
F. C. Small Co., groceries,	36 58
Robert Hutcheson, fish,	36 39
H. J. Furneaux, provisions,	51 38
George C. Dunnells, fish,	31 93
T. A. Holt Co., groceries,	335 06
Lawrence Gas Co.,	146 20
Smith & Manning, groceries,	242 83
J. H. Champion & Co., groceries,	101 08
L. E. Chase, supplies,	75 07
Armour & Co., supplies,	3 75
Treat Hardware Co., supplies,	8 57
W. H. Coleman & Co., supplies,	3 55
F. H. Stacey, drugs,	15 00
A. M. Colby, supplies,	36 20
Ira Buxton, supplies,	1 85
F. M. Porter, clothing,	50
Robertson & Sutherland Co., dry goods,	7 31
Reid & Hughes, dry goods,	94 06
Beach Soap Co., soap,	7 50
O. W. Vennard, opening grave,	5 00
J. P. Wyllie & Co., shoes,	7 90
Walter I. Morse, hardware,	23 78
Anderson & Bowman, blacksmith work,	54 20
Seven Oils Co., ointment,	9 00
Everett M. Lundgren, funeral expenses,	35 00
Frank L. Cole, clothing,	18 48
Albert W. Lowe, drugs,	30 05
Charles A. Stone, sawing wood,	9 00

Amount carried forward,

\$1955 48

Appropriation and Receipts,	\$4454 20
<i>Amount brought forward,</i>	\$1955 48
R. J. Barrett, wood,	15 80
F. W. Spinney, shrubs,	8 75
O. P. Chase, papers and supplies,	28 64
Buchan & Francis, supplies,	71 80
Charles Robinovitz, shoes and repairing,	22 60
Buchan & McNally, supplies,	28 29
Hiller & Co., supplies,	25
Board of Public Works, water,	110 19
J. H. Playdon, plants,	3 50
Walker Holden, plants,	3 00
Fred Perry, labor,	29 00
Edward Wilson, labor,	3 00
John Barry, labor,	5 00
George D. Millett, plants,	3 20
J. P. Wakefield, provisions,	39 93
Dr. George S. Fuller, services,	11 00
D. W. Pingree Co., lumber,	7 25
Benjamin Brown, shoes,	17 10
J. E. Whiting, supplies,	2 35
J. R. Poole, supplies,	9 60
Andover Coal Co., coal,	393 34
Dr. C. H. Playdon, services,	4 00
F. C. Small & Co., groceries,	29 92
A. Basso, supplies,	11 17
T. F. Morrissey & Son, straw,	15 65
Alvin Jenkins, pasturing heifer,	5 00
Peoples Ice Co., ice,	50 00
W. F. Chisholm, supplies,	2 40
New England Produce Co., supplies,	10 50
Walter C. Boyce, supplies,	15 00
Frank H. Hardy, baskets,	1 50
Smith & Dove Co., ashes,	30
George L. Averill, fertilizer,	40 90
Crowley & Co., drugs,	90
<i>Amount carried forward,</i>	\$2956 21

Appropriation and Receipts,		\$4454 20
<i>Amount brought forward,</i>	\$2956 21	
Jaynes Drug Co.,	5 30	
Bride, Grimes Co., tube cleaner,	1 00	
James E. McGovern, fertilizer,	5 25	
Samuel Newman, wheelbarrow,	9 00	
Thomas Neil, labor,	4 00	
Fire Department, manure,	20 00	
Fred A. Swanton, superintendent,	800 00	
Isabell Sinclair, labor,	96 67	
Bernard McCabe, labor,	2 25	
Bertha Jansson, labor,	313 00	
Frank L. Holt, labor,	6 75	
Marie Sparson, labor,	6 00	
Olive Taplin, labor,	27 50	
Ida Clark, labor,	10 00	
John Leasson, labor,	180 50	
Charlotte Hill, labor,	10 20	
	<hr/>	
Total expenditure,	\$4453 73	
Balance unexpended,	47	
	<hr/>	
	\$4454 20	\$4454 20

PERSONAL PROPERTY AT ALMSHOUSE

Household furniture,	\$1225 00
Clothing,	375 00
Farm stock,	840 00
Farm tools,	400 00
Farm produce,	303 00
Fuel,	310 00
Provisions,	75 00
	<hr/>
	\$3528 00

ALMSHOUSE REPAIRS

Appropriation, March 2, 1914,		\$800 00
Walter I. Morse, hardware and paint,	\$117 22	
J. E. Pitman, lumber and labor,	86 21	
James C. Souter & Co., repairs,	4 00	
Hardy & Cole, lumber and labor,	133 37	
Arden Farm, gravel,	2 50	
J. Houghton Flint, labor,	36 00	
G. E. Davis, labor,	44 92	
D. J. McCarthy, labor,	29 96	
George D. Ward, handling logs,	14 40	
William Bowman, supplies and labor,	64 61	
D. W. Pingree Co., sawdust,	14 01	
James Craik, labor,	13 75	
Board of Public Works, pipe,	25 98	
Harry M. Eames, drainpipe,	7 00	
W. H. Coleman & Co., supplies,	16 08	
James S. May, labor,	53 85	
Frank E. Dodge, cement,	82 27	
Lawrence Lumber Co.,	1 92	
Edward T. Ward, labor,	27 50	
S. W. Fellows, paper and mouldings,	15 60	
Total expenditure,	\$791 15	
Balance unexpended,	8 85	
	\$800 00	\$800 00

SOLDIERS' RELIEF

Appropriation, March 2, 1914,		\$1000 00
Amount expended,	\$ 656 75	
Amount unexpended,	343 25	
	\$1000 00	\$1000 00

STATE AID

Appropriation, March 2, 1914,		\$1500 00
Amount expended,	\$1322 00	
Amount unexpended,	178 00	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

AILING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 2, 1914,		\$500 00
Amount expended,	\$168 00	
Amount unexpended,	332 00	
	<hr/>	<hr/>
	\$500 00	\$500 00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 2, 1914,		\$4500 00
Paid out of Almshouse,	\$3621 37	
Paid other cities and towns,	423 59	
Paid State,	414 06	
Paid on account other cities and towns,	289 45	
Paid on account State,	116 35	
	<hr/>	
Total expenditure,	\$4864 82	
Due Town from other cities and towns,	\$289 45	
Due Town from State,	85 35	\$ 374 80
	<hr/>	<hr/>
Net expenditure,	\$4490 02	
Unexpended,	9 98	
	<hr/>	<hr/>
	\$4500 00	\$4500 00

SUPERINTENDENT'S REPORT

Number of inmates, Jan. 1, 1914,	10
Number admitted during the year,	5
Number born,	1
Number discharged,	1
Number died,	1
Number sent to Danvers,	1
Number remaining Jan. 1, 1915,	13
Number over seventy years of age,	7
Number between sixty and seventy,	3
Number between fifty and sixty,	1
Number between twenty and thirty,	1
Number of infants,	1
Number of tramps put up,	4
Number of tramps fed,	14

SUPERINTENDENT'S FARM REPORT

DR.

Cash received for

Cows,	\$588 00
Hay,	70 00
Boarding horse for Ira B. Hill,	4 00
Pigs and boarding pigs,	89 25
Calf,	3 00
Milk,	10 75
Pears,	4 00
Apples,	5 20

Total receipts,	\$774 20
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CR.

Cash paid for

Cows,	\$320 00
Paid Town Treasurer to balance,	454 20
	<hr/>
	\$774 20

FRED A. SWANTON, *Superintendent*

ASSESSORS' REPORT

We herewith submit our annual report.

Number of male polls assessed,		2006
Real estate,	\$5932425 00	
Personal estate	2660355 00	
	<hr/>	\$8592780 00
Poll tax,	\$ 4012 00	
Tax on real estate,	106783 65	
Tax on personal estate	47886 39	
	<hr/>	\$ 158682 04
Rate of tax per \$1000,	18 00	
Number of		
Horses assessed,		648
Cows assessed,		1038
Sheep assessed,		20
Cattle other than cows assessed,		216
Swine assessed,		231
Dwellings assessed,		1530
Acres of land assessed,		18304
Fowl assessed,		11485

HARRY M. EAMES,
WALTER S. DONALD,
CHARLES BOWMAN,

Assessors of Andover

FIRE DEPARTMENT

REPORT OF CHIEF ENGINEER

To the Board of Selectmen,

GENTLEMEN:— In compliance with the regulations of the Fire Department, I submit the following report from January 1, 1914, to January 1, 1915.

During this time 54 bell alarms and 17 still alarms were answered. Apparatus at Central Station answered 46 bell and 10 still alarms. Apparatus traveled 197 miles, raised 869 feet of ladders, laid 17,695 feet of hose and used 1260 gallons of chemicals.

Value of buildings and contents where fire occurred	\$438930.00
Loss on buildings and contents	22240.60
Insurance on buildings and contents	270350.00

The working force of the department consists of three engineers, three permanent men and twenty call men at the Central Station, and ten call men at Hose 2, Ballardvale.

The apparatus in working order consists of one Auto Combination Chemical Truck, one Combination Pumping and Chemical Truck, one fourth class Amoskeag Fire Engine, one two-horse Hose Wagon, one Hook and Ladder Truck, one two-horse Sled, and one two-horse Supply Wagon.

There is about 4000 feet of hose in good condition and we need 1000 feet more. Most of the hose that we have has been in use between fifteen and twenty years and should be replaced in the next five years.

Combination Chemical No. 1 which went into service July 8, 1912, twenty-nine months ago, has cost for repairs the small sum of \$6.50, and \$298.83 for tires to date. We will have to purchase two new tires this year.

Combination Pumping Engine No. 2 was accepted and placed in Commission October 5, and has since demonstrated that it

can do good service, as shown at the Bartlet Hall fire, pumping for over six hours continuously an average of 900 gallons per minute. We feel that we have two of the best auto fire-fighting machines made, built for hard service and durability. These machines have never had an accident and have never failed to start in responding to alarms, and if you will compare the cost of repairs made on other machines for the same length of service you will readily see that there is no comparison in the cost of maintenance. We think it pays to buy the best, and we have every reason to think that the Town of Andover has the best.

During the past year a Universal Fire Alarm box has been installed in the Central Fire Station, and all alarms of fires telephoned to the station have been rung in on a duplicate wheel the same number as in the district from where the call has come, thus saving us from ringing Box 52 as we had to do formerly.

The Fire Alarm System is in good condition and during the past year the permanent men have spent their spare time in improving the system and going over the lines of wire and making the necessary repairs.

Owing to one of the floor timbers breaking and letting down the floor in the apparatus room, it was deemed necessary to strengthen the other timbers and floors by placing steel girders and iron plates underneath them in the basement. Some of the horse-stalls have been removed and in their place a much-needed concrete washstand has been built.

During the last year one pair of horses have been sold and one pair of horses together with harnesses and carts have been turned over to the Board of Public Works, leaving five horses in the Department. The earnings of the horses and drivers for the past year was \$3386.13, and this year the earnings probably will not be over \$1000 on account of dispensing with the two pairs, and one pair held within the fire limits. The earnings of the horses and drivers with the appropriation of \$2000 was less than appropriated in 1913 for maintenance of same.

I recommend that the 4-inch water mains on Chestnut and Florence Streets be replaced by 8-inch mains, as the 4-inch mains are not large enough to give good fire protection.

SCHEDULE OF PROPERTY

Two houses and sheds	\$23000 00
Two motor trucks	14300 00
Fourth class fire engine	2800 00
Three harnesses	200 00
Two ladder trucks	1200 00
One hose sled	60 00
Fire alarm system	4500 00
4000 feet hose	2000 00
Two hose wagons	1000 00

I recommend the appropriation of \$8000 for running expenses, and such other additions as seem necessary; also, \$550 for water and use of hydrants, \$500 for the purchase of new hose.

Respectfully submitted,

LEWIS T. HARDY

Chief Engineer

POLICE DEPARTMENT

POLICE REPORT

To the Honorable Board of Selectmen.

GENTLEMEN: I hereby submit my report of the Police Department for the year ending December 31, 1914.

ARRESTS

Males,	133
Females,	9
<hr/>	
Whole number of arrests,	142

OFFENCES FOR WHICH ARRESTS WERE MADE

Adultery,	2
Bastardy,	1
Disorderly house,	2
Rape,	1
Truancy,	1
Concealing stolen property,	3
Evading board-bill,	1
Drunkenness,	12
Assault,	16
Assault and battery,	1
Breaking and entering,	2
Larceny,	10
Illegal slaughtering,	2
Disturbance,	12
Disorderly,	1
Assault on wife,	2
Vagrancy,	4
Breaking Highway Commission Laws,	17
Peddling without license,	5
Malicious mischief,	3
Non-support,	3
Defacing building,	1
<hr/>	
<i>Amount carried forward,</i>	102

<i>Amount brought forward,</i>	102
Delinquency,	4
Taking child from school,	1
Trespass,	7
Disturbing the peace,	16
Common drunkard,	5
Insane,	7
	<hr/>
	142

DISPOSITION OF CASES

Discharged,	10
Appealed,	2
Continued,	17
Committed to State Farm,	8
Committed to House of Correction,	3
Held for Grand Jury,	4
Arrested for out-of-town officers,	8
Paid Fines,	53
Committed to Danvers Insane Asylum,	5
Discharged for want of jurisdiction,	2
Discharged for want of evidence,	2
On file,	14
Probation Officers,	3
Lyman School,	1
On probation,	10
	<hr/>
Total,	142

MISCELLANEOUS

Fines paid in lower court,	\$436.55
Burglaries reported,	9
Dead bodies cared for,	4
Doors found open and secured,	116
Dogs killed,	47
Value of property reported stolen,	\$1800.00
Value of property recovered,	1000.00
Complaints investigated,	267
Value of equipments in Police Department,	\$300.00

FRANK M. SMITH,
Chief of Police

SCHEDULE OF TOWN PROPERTY

Town house, fixtures and furniture,	\$32000 00	
Engine house, storehouse, and barn,	20000 00	
25723 ft. land,	16000 00	
	<hr/>	\$68000 00
Memorial Hall,	25000 00	
22318 ft. land,	10000 00	
	<hr/>	35000 00
Engine house, Ballardvale,	3000 00	
New shed,	200 00	
1-3 acre land,	250 00	
	<hr/>	3450 00
Alms house,	12000 00	
Barn and other buildings,	1500 00	
31 1-2 acres land,	3500 00	
	<hr/>	17000 00
Punchard schoolhouse,	28000 00	
4 acres land,	8000 00	
	<hr/>	36000 00
Heating plant and		
John Dove schoolhouse,	42000 00	
Stowe schoolhouse,	24000 00	
3 3-4 acres land,	6000 00	
	<hr/>	72000 00
Bradlee schoolhouse, Ballardvale,	14500 00	
1 acre land,	500 00	
	<hr/>	15000 00
Richardson schoolhouse,	5000 00	
1-2 acre land,	400 00	
	<hr/>	5400 00
<i>Amount carried forward,</i>		<hr/> \$251850 00

<i>Amount brought forward,</i>		\$251850 00
Indian Ridge schoolhouse,	\$9600 00	
1 acre land,	800 00	
	<hr/>	10400 00
West Centre schoolhouse,	3500 00	
1-2 acre land,	150 00	
	<hr/>	3650 00
North District schoolhouse,	3500 00	
1-2 acre land,	50 00	
	<hr/>	3550 00
Abbott District schoolhouse,	500 00	
1-2 acre land,	25 00	
	<hr/>	525 00
Bailey District schoolhouse,	1800 00	
1-2 acre land,	50 00	
	<hr/>	1850 00
Osgood District schoolhouse,	800 00	
1-2 acre land,	50 00	
	<hr/>	850 00
Old schoolhouse, Ballardvale,	2500 00	
1-4 acre land,	500 00	
	<hr/>	3000 00
9 acres, Indian Ridge (Gravel Pit),		4000 00
41 1-2 acres, Carmel Woods Reservation		3600 00
173,751 sq. ft. land, Central Park,		
(Richardson Field),		10000 00
6 1-2 acres Playstead,		2000 00
Band stand,		1000 00
Andover Board of Public Works—		
Pipe lines and fountains,	\$245497 00	
Pumping station and buildings,	42500 00	
Coal shed,	700 00	
3 acres land,	800 00	
20 acres Boston Ice Co. land,	2500 00	
2 reservoirs,	\$16000 00	
4 1-2 acres land,	2350 00	
	<hr/>	310347 00
<i>Amount carried forward,</i>		<hr/> \$606622 00

<i>Amount brought forward,</i>		\$606622 00
Sewer system,	126000 00	
Work shop,	1000 00	
New shed, Lewis St.,	1200 00	
47,467 ft. storage yard,	3000 00	
	<hr/>	131200 00
Punchard School Fund, .		76454 28
Memorial Hall, Permanent Fund,	45000 00	
Memorial Hall Library, John Cornell Fund,	7700 00	
Memorial Hall Library, John Byers Fund,	10000 00	
Memorial Hall Library, Edward Taylor Fund,	500 00	
Memorial Hall Library, Isaac E. Gid- dings Fund,	3000 00	
Memorial Hall Library, and furniture,	10000 00	
Memorial Hall Library, Woman's Chris- tian Temperance Union,	100 00	
Memorial Hall Library, Phillips Fund,	3200 00	
	<hr/>	79500 00
Personal Property at Town Farm,		3528 00
Motor Combination Chemical Truck,		5800 00
Motor Combination Pump and Truck,		9000 00
One Steam Fire Engine and apparatus,		2800 00
Two Hook and Ladder Trucks,		1200 00
Two Hose Wagons,		1000 00
Hose Sled,		60 00
Five Horses,		1000 00
Stone Breaker and Engine,		2000 00
Carts, Harnesses, and Tools,		200 00
Hay Scales,		350 00
Safes in Town House,		800 00
41 1-2 acres land, Spring Grove Cem'y	6500 00	
Receiving Tomb and Tool House,	1500 00	
	<hr/>	8000 00
<i>Amount carried forward,</i>		\$929514 28

<i>Amount brought forward,</i>	\$929514 28
Weights and Measures,	350 00
Steam Road Roller,	1200 00
One Sled,	75 00
Fire Alarm apparatus,	4500 00
4000 ft. Hose,	2000 00
	<hr/>
	\$937639 28

TREE WARDEN'S REPORT

During the past year fifteen shade trees were planted in various sections of the town, and during the summer eight trees were removed from the streets: one on Maple Avenue, one on High Street, one on Pearson Street, one on North Main Street, two on Abbot Street, and two on Salem Street. Also removed the dead branches from the following streets: Salem Street, Abbot Street, Main Street, Morton Street, and Maple Avenue. I also removed the branches from trees which interfered with the electric lights throughout the town.

Respectfully submitted,

J. H. BAKER

Tree Warden

REPORT OF MOTH SUPERINTENDENT

During the past season there has been a noticeable decrease in the Browntail Moths which we hope will be permanent, and I am pleased to note that fruit trees which were affected with San Jose Scale and have been sprayed with lime sulphate solution for the past two years, have been greatly improved, and it is to be hoped that this work will be continued in order that this can be stamped out. The best time to do this work is from March 1st to April 15th, before the foliage starts to grow. During the past season all the shade trees have been sprayed and the roadsides have been sprayed in all the outlying districts, and this has greatly reduced the cost of the winter work this year. About twenty miles of roadside cutting has been done during the past season, which will add greatly to the convenience of travel and improve the condition of the highway, and I would recommend that the sum of thirty-five hundred (\$3500) dollars be appropriated for the ensuing year for the suppression of moths and the care and maintenance of the trees.

Respectfully submitted

J. H. PLAYDON

Local Moth Superintendent

SUPPRESSION OF BROWNTAIL AND GYPSY MOTHS

Appropriation, March 2, 1914,	\$3250 00
Private work	2378 78
	<hr/>
	\$5628 78
J. M. Derrah, labor,	\$ 148 96
Fred Brundrett, labor,	322 44
Harry Hayward, labor,	205 49
M. O'Connor, labor,	218 15
John Shevlin, labor,	80 58
Earl Powers, labor,	212 03
Ernest Zecchini, labor,	114 20
J. Howard Baker, labor,	295 05
William Ross, labor,	98 62
Patrick Tucker, labor,	197 52
William Hatch, labor,	90 47
John Stewart, labor,	151 19
Philip Allicon, labor,	24 00
Walter Stickney, labor,	27 00
Frank Mealy, labor,	269 03
William Broderick, labor,	287 49
Jonathan Hilton, labor,	88 45
Clarence Harrington, labor,	36 67
James Craik, labor,	213 21
J. McDermott, labor,	25 65
Henry Buckley, labor,	35 01
Joseph Peters, labor,	66 75
John Donovan, labor,	74 63
Paul Haber, labor,	37 50
Frank Connolley, labor,	108 00
J. H. Playdon, use of horse and labor,	252 80
Ira Buxton, repairs and supplies,	35 79
S. T. Shattuck, storing sprayer and use of team,	180 26
Anderson & Bowman, repairs,	2 30
American Express, express,	2 72
	<hr/>
<i>Amount carried forward,</i>	\$3901 96

Appropriation and Receipts,		\$5628 78
<i>Amount brought forward,</i>	\$3901 96	
Grasseli Chemical Co., arsenate of lead,	317 57	
William F. Chisholm,	5 45	
A. M. Colby, supplies,	7 50	
Buchan & McNally, supplies,	2 80	
Freeman Abbott, use of horses,	300 00	
Hill Hardware & Paint Co.,	124 60	
Boston Coupling Co., repairs,	7 50	
Walter I. Morse, supplies,	29 33	
Lawrence Rubber Co.,	4 00	
W. D. Walker,	4 00	
W. H. Coleman & Co., supplies,	41 06	
Myerscough & Buchan, supplies,	3 03	
T. F. Morrissey & Son,	102 50	
F. W. Rane, State Forester, too ,	205 03	
	<hr/>	
Total expenditure,	\$5056 33	
Transferred to Tree Warden,	89 53	
Balance,	482 92	
	<hr/>	
	\$5628 78	<hr/> \$5628 78

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen.

GENTLEMEN: I hereby submit my report for the year beginning November 15, 1913, and ending November 15, 1914.

Number of cattle inspected,	1403
Number of swine inspected,	530
Number of cow stables inspected,	159
Number of tubercular cattle quarantined and condemned,	43
Interstate cattle held for test, and identified and released from quarantine,	44
Number of cases of rabies,	2
Dogs quarantined on account of rabies,	6
Dogs killed on account of rabies,	3
Stables cleansed and disinfected,	34

Respectfully submitted,

CHARLES H. NEWTON

Inspector of Animals

SPRING GROVE CEMETERY

Your committee are of the unanimous opinion that a larger appropriation of money will be necessary in the near future to prepare the easterly half of the grounds for burial purposes, as the lots of land in the westerly side are mostly taken and it will be but a short time before they are all taken. Your committee have in contemplation a plan for the further development of the grounds and will submit the same to the town for action at a future meeting. For the coming year they ask for the usual appropriation of \$1000 and proceeds from sale of lots. The present condition of the grounds is estimable and reflects much credit on the Superintendent. We should always remember that a burial-place is sacred ground and should not be neglected.

“I like that ancient Saxon phrase which calls
The burial ground God’s acre; it is just,
It consecrates each grave within its walls
And breathes a benison o’er the sleeping dust.”

JOHN L. SMITH
GEORGE W. FOSTER
FELIX G. HAYNES
OLIVER W. VENNARD
GEORGE D. MILLETT
JOHN W. BELL
DANIEL H. POOR

Cemetery Trustees

ANDOVER, FEB. 9, 1915

REPORT OF SUPERINTENDENT

Lots sold as per last report,	423
Lots sold this year,	13
	<hr/>
Total number of lots sold,	436
Total number of single graves sold,	151
Interments as per last report,	1110
Interments this year,	58
	<hr/>
Total number of interments,	1168

Respectfully submitted,

O. W. VENNARD, *Supt.*

CORNELL FUND

RECEIVED

Amount of Fund,		\$5000 00
Deposited in Savings Banks,		5000 00
Balance from last year,	\$ 99 15	
Dividends,	228 72	
	<hr/>	\$ 327 87

PAID

Expended for coal and wood,	\$302 50	
Balance on hand,	25 37	
	<hr/>	\$ 327 87

JOHN C. ANGUS,
ALLAN SIMPSON,
W. D. WALKER,

Trustees

REPORT OF TAX COLLECTOR

To the Board of Assessors:—

I herewith hand you my report as Collector of Taxes for the year ending December 31, 1914.

1908

Amount as per Warrant,		\$68 30
Interest,		8 20
Collected Taxes,	\$68 30	
Collected Interest,	8 20	
	<hr/>	<hr/>
	\$76 50	\$76 50
	<hr/>	<hr/>

1910

Amount as per Warrant,		\$1228 47
Error in Warrant,		25 01
Additional Assessments,		3 19
Street Sprinkling,		5 04
Moth Work,		3 66
Interest,		122 68
Collected Taxes,	\$ 551 25	
Collected Street Sprinkling,	5 04	
Collected Moth Work,	3 66	
Collected Interest,	122 68	
Abated,	396 48	
Uncollected,	308 67	
	<hr/>	<hr/>
	\$1388 05	\$1388 05
	<hr/>	<hr/>

1911

Amount as per Warrant,		\$3855 32
Additional Assessments,		5 02
Street Sprinkling,		13 23
Moth Work,		179 02
Interest,		455 20
Collected Taxes,	\$2730 88	
Collected Street Sprinkling,	13 23	
Collected Moth Work,	179 02	
Collected Interest,	455 20	
Abated,	466 99	
Uncollected,	662 47	
	<u>\$4507 79</u>	<u>\$4507 79</u>

1912

Amount as per Warrant,		\$9119 06
Additional Assessments,		3 35
Street Sprinkling,		33 69
Moth Work,		123 57
Interest,		533 93
Collected Taxes,	5247 08	
Collected Street Sprinkling,	33 69	
Collected Moth Work,	123 57	
Collected Interest,	533 93	
Abated,	557 96	
Uncollected,	3317 37	
	<u>\$9813 60</u>	<u>\$9813 60</u>

1913

Amount as per Warrant,		\$17653 96
Additional Assessments,		23 30
Street Sprinkling,		65 28
Moth Work,		209 39
Interest,		339 45
<i>Amount carried forward,</i>		<u>\$18291 38</u>

<i>Amount brought forward,</i>		\$18291 38
Collected Taxes,	\$9301 00	
Collected Street Sprinkling,	65 28	
Collected Moth Work,	209 39	
Collected Interest,	339 45	
Abated,	258 64	
Uncollected,	8117 62	
	<hr/>	
	\$18291 38	18291 38
	<hr/>	<hr/>

1914

Amount as per Warrant,		\$158682 04
Additional Assessments,		5366 18
Bay State St. R. R. Excise Tax,		2049 41
Street Sprinkling,		1348 79
Moth Work,		1863 14
Interest,		54 32
Collected Taxes,	\$136848 74	
Collected Bay State St. R. R. Excise		
Tax,	2049 41	
Collected Street Sprinkling,	1348 79	
Collected Moth Work,	1863 14	
Collected Interest,	54 32	
Abated,	129 55	
Uncollected,	27069 93	
	<hr/>	
	\$169363 88	\$169363 88
	<hr/>	<hr/>

SUMMARY COLLECTOR'S CASH ACCOUNT

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	Taxes	Street Sprinkling	Moth Work	B. S. St. R. R. Excise Tax	Interest on Taxes	Totals
1908	\$ 68 30				\$ 8 20	\$ 76 50
1910	551 52	5 04	3 66		122 68	682 90
1911	2730 88	13 23	179 02		455 20	3378 33
1912	5247 08	33 69	123 57		533 93	5938 27
1913	9301 00	65 28	209 39		339 45	9915 12
1914	136848 74	1466 03	2378 78	2049 41	54 32	142164 40
	\$154747 52	\$1466 03	\$2378 78	\$2049 41	\$1513 78	\$162155 52

JOHN W. BELL,
Collector of Taxes

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (8000 due 1915)	\$128000 00
Water Bonds, 3½% (3000 due 1915),	56000 00
Sewer Bonds, 4%,	33000 00
And'r Loan Bonds 4% (5000 due 1915),	30000 00
	<hr/> \$247000 00

Assets

Cash, General Fund,	\$ 8927 48	
Cash, Water Department,	1814 67	
	<hr/>	\$10742 15
Uncollected Taxes,	\$39476 06	
Street Sprinkling,	272 53	
Moth Work,	871 08	
	<hr/>	\$40619 67
Commonwealth, State Aid,	\$1322 00	
Commonwealth, Pauper Account,	85 35	
Commonwealth, Burial Soldiers,	50 00	
Cities and Towns, Pauper Account,	289 45	
Sewer Assessments,	802 33	
Unpaid Water Rates of January 1,	5675 45	
Sinking Funds,	43157 10	
	<hr/>	\$51381 68
Balance against Town,		144256 50
		<hr/> \$247000 00

GEORGE A. HIGGINS, Treas., in.

DR.

Balance, January 12, 1914,	\$ 16026 00
Commonwealth, Corporation Tax,	24183 45
Commonwealth, Bank Tax,	6143 34
Commonwealth, State Aid,	1316 00
Commonwealth, St. R. R. Tax,	2560 37
Commonwealth, School Tuition,	241 00
Commonwealth, Industrial School,	400 00
Commonwealth, Pauper Account,	112 79
Commonwealth, Highway Commission, Moth Work,	87 33
Commonwealth, Aid to Mothers with Dependent Children,	54 83
County of Essex, Dog Tax,	696 76
Andover Nat'l Bank, Notes,	70000 00
John W. Bell, Collector, Taxes,	154747 52
John W. Bell, Collector, Interest on Taxes,	1513 78
John W. Bell, Collector, St. Ry. Excise Tax,	2049 41
John W. Bell, Collector, Street Sprinkling,	1466 03
John W. Bell, Moth Work,	2378 78
John W. Bell, Collector, Interest on Deposits,	68 31
John W. Bell, Collector, One Tax Certificate,	1 00
Water Rates,	19614 00
C. J. Stone, Trial Justice, Fines,	153 00
Almshouse, F. A. Swanton, Supt.,	454 20
Spring Grove Cemetery, Lots sold,	447 00
Town Hall, Rents,	278 50
School Department, Tuition and Supplies,	684 84
Cities and Towns, Pauper account,	200 92
Hay Scales,	110 00
G. A. Higgins, Town Clerk, Fees,	129 00
Andover Nat'l Bank, Interest on Deposits,	226 04
Smart & Flagg, Agts., Insurance Dividends,	98 20
Smart & Flagg, Agts., Insurance on Bailey School,	202 66
Ballard Vale Stores, Rent,	230 00

Amount carried forward, \$306875 06

account with the Town of Andover

CR.

Orders Paid,

Schools,	\$ 39798 97
School Houses,	2666 64
Books and Supplies,	2318 67
North School,	2743 40
Lawrence Industrial School,	62 51
High School Plans,	249 48
Highways and Bridges,	31786 64
Sidewalks,	1648 41
Snow,	2684 37
Parks,	1677 17
Street Lighting,	5805 82
Police,	4193 36
Printing and Stationery,	991 85
Insurance,	990 11
Miscellaneous,	2139 42
Town House,	1755 46
Town Officers,	6091 86
Fire Department,	20604 46
Fire Alarm Boxes,	595 00
Spring Grove Cemetery,	1436 12
Board of Health,	978 19
Moth Work,	5056 33
Tree Warden,	339 53
Public Dump,	75 00
Hay Scales,	109 27
Interest on Notes and Bonds,	11013 01
Redemption 10 Water Bonds,	10000 00
Redemption 4 School House Bonds,	4000 00
Redemption 5 Andover Loan Act Bonds,	5000 00
Maintenance Water Department,	10000 00
Construction, Water Department,	1500 00
Maintenance, Sewer Department,	1500 00
Sewer Sinking Funds,	1000 00

Amount carried forward,

\$180811 05

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward,</i>	\$306875 06
F. H. Stacey, Milk Licenses,	10 50
W. C. Crowley, Sealer's Fees,	44 07
Board of Public Works, Highway Department, Labor and Supplies,	897 98
Sidewalk Assessment,	10 00
J. H. Playdon, Moth Dept., Supplies,	5 55
Liquor Licenses,	3 00
County of Essex, refund Killing Dogs,	41 00
Board of Public Works, use of Horses,	3319 67
A. V. I. S., use of Horses,	17 19
Tree Warden, use of Horses,	10 92
Forest Warden, use of Horses,	18 35
Fire Department, sale of Manure,	20 00
Abbot Academy, Labor by Fire Dept.,	12 00
Boston & Maine R. R., Refund,	1 00
C. R. Forsythe, Horse,	200 00
C. H. Playdon, Horse,	100 00
Fire Department, sale of Junk,	1 60
Fire Department, sale of Harnesses,	32 00
Fireworks Licenses,	1 00
F. A. Swanton, Supt., Board at Almshouse,	15 75
	<hr/>
	\$311636 64

account with the Town of Andover

CR.

<i>Amount brought forward,</i>	\$180811 05
Water Sinking Funds,	750 00
Memorial Day,	350 00
Special G. A. R. Appropriation,	50 00
Memorial Hall Library,	2300 00
Memorial Hall Library, Dog Tax,	696 76
Almshouse Expenses,	4453 73
Almshouse Repairs,	791 15
Relief Out,	4864 82
Soldiers' Relief,	656 75
State Aid,	1322 00
Mothers with Dependent Children,	168 00
Commonwealth, State Tax,	19862 50
Commonwealth, Bank Tax,	1952 94
Commonwealth, State Highway,	400 24
County Tax,	13279 22
Andover Nat'l Bank, Notes,	70000 00
	<hr/>
Total Expenditure,	\$302709 16
Cash to Balance,	8927 48
	<hr/>
	\$311636 64

Water Department

DR.

Balance, Jan. 12, 1914,	\$ 481 17	
Maintenance,	10000 00	
Construction,	1500 00	
Service Pipe,	2436 94	
Bonds 331-340,	10000 00	
Premium and Interest on Bonds,	182 60	
Andover Nat'l Bank, Int. on Deposits,	37 87	
	<hr/>	\$24638 58

CR.

Orders Paid,	\$22823 91	
Balance on hand, Jan. 1, 1915,	1814 67	
	<hr/>	\$24638 58

Sewer Department

DR.

Balance Jan. 12, 1914,	\$ 638 69	
Maintenance,	1500 00	
House Connections,	573 42	
Miscellaneous,	15 21	
Sewer Assessments,	614 34	
Sewer Assessments Interest,	28 91	
	<hr/>	\$3370 57

CR.

Orders Paid,	\$2711 89	
W. B. Hodgkins, Treas. Sinking Fund,	633 54	
House Connections,	25 14	
	<hr/>	\$3370 57

Richardson Fund—Frye Village School

DR.

Balance, January, 1914,	\$1130 38	
Andover Savings Bank, Interest,	45 64	
	<hr/>	\$1176 02

CR.

W. I. Morse,	\$ 1 64	
David Farquhar,	9 00	
Deposit, Andover Savings Bank, Jan. 1, 1915,	1165 38	
	<hr/>	\$1176 02

Draper Fund

DR.

Balance, January, 1914,	\$1078 98	
Andover Savings Bank, Interest,	43 56	
	<hr/>	\$1122 54

CR.

Smith & Manning,	\$ 1 10	
H. L. White,	3 00	
Herbert Lewis,	4 00	
Edna R. Thayer,	3 10	
W. I. Morse,	7 91	
E. F. Conkey,	9 50	
Helen W. Battles,	75	
Chas. Sayles,	2 25	
Geo. E. Flint,	4 00	
Emily F. Carleton,	1 00	
Deposit, Andover Savings Bank, Jan 1, 1915,	1085 93	
	<hr/>	\$1122 54

Edward Taylor Fund

DR.

Balance, January, 1914,	\$211 93	
Andover Savings Bank, Interest,	8 54	
	<hr/>	\$220 47

CR.

Deposit Andover Savings Bank, Jan. 1, 1915,	\$220 47	
	<hr/>	\$220 47

Varnum Lincoln Spelling Fund

DR.

Balance, January, 1914,	\$520 80	
Andover Savings Bank, Interest,	20 20	
	<hr/>	\$541 00

CR.

G. M. Bemis, Supt. of Schools,	\$ 20 00	
Deposit, Andover Savings Bank, Jan. 1, 1915,	521 00	
	<hr/>	\$541 00

Isaac E. Giddings Burial Ground Fund

DR.

Balance, January, 1914,	\$1000 00	
Andover Savings Bank, Interest,	40 40	
	<hr/>	\$1040 40

CR.

Philip R. French, Treas. South Cem'y,	\$ 40 40	
Deposit, Andover Savings Bank, Jan. 1, 1915,	\$1000 00	
	<hr/>	\$1040 40

Cemetery Funds

DR.

Balance, Jan., 1914, And. Sav. Bank,	\$13547 54
Interest, Andover Savings Bank,	551 06
Deposits for Perpetual Care,	1275 00
Andover Nat'l Bank Stock,	200 00
Andover Nat'l Bank Dividends,	12 00
Cash,	44 00
	<hr/>
	\$15629 60

CR.

Paid for Care of Lots,	\$ 529 50
Deposits Andover Savings Bank,	14852 10
Andover Nat'l Bank Stock,	200 00
Cash,	48 00
	<hr/>
	\$15629 60

AUDITORS' CERTIFICATE

We have examined the accounts of the several Town Officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in the Andover National Bank and cash on hand, \$8,927.48.

Also, to the credit of the Water Department, \$1814.67.

NESBIT G. GLEASON
WALTER H. COLEMAN
JOHN S. ROBERTSON

Auditors

RECOMMENDATIONS OF FINANCE COMMITTEE

The following is a list of appropriations recommended by the Finance Committee for 1915.

Almshouse Expenses,	\$ 4200 00
Repairs on Almshouse,	800 00
Relief out of Almshouse,	4700 00
Aiding Mothers with Dependent Children,	500 00
Board of Health,	1000 00
Brush Fires,	800 00
Fire Department,	8000 00
New Hose	500 00
Hay Scales,	125 00
Highway Department,	25000 00
Also Street Railway Tax and Street Sprinkling (amounting last year to \$6075 81)	
Insurance,	950 00
Insurance under Workmen's Compensation Act,	500 00
Interest,	15000 00
Memorial Hall Library,	1800 00
Memorial Day,	350 00
Post 99, G. A. R.	50 00
Miscellaneous,	1700 00
Parks and Playsteads,	1500 00
Police,	4500 00
Printing and Stationery,	1250 00
Public Dump,	75 00
Retirement of Veterans Acts 1912,	300 00
Redemption of Water Bonds,	11000 00
Redemption Andover Loan Act Bonds,	5000 00

Schools	
Unexpended Balance for Plans,	250 00
Maintenance,	40500 00
Books and Supplies,	2400 00
School Houses,	3600 00
Industrial School,	200 00
Sewer Department,	
Maintenance,	1800 00
Sinking Funds,	1000 00
Snow,	1500 00
Soldiers' Relief,	900 00
Spring Grove Cemetery,	1000 00
and receipts from sale of lots	
State Aid,	1500 00
Sidewalks,	1500 00
(\$250 to be spent under Betterment Act)	
Street Lighting,	6000 00
Town Officers,	6500 00
Town House,	2000 00
Tree Warden,	250 00
Gypsy and Browntail Moth Department,	3250 00
Water Department,	
Maintenance,	10000 00
Construction,	3000 00
Sinking Funds,	750 00
Total,	\$177500 00
Estimated County Tax,	14000 00
Estimated State Tax,	23000 00
	<hr/>
	\$214500 00

Article 4. Voted to recommend the sum of \$200 for this purpose.

Art. 5. Removal of pumping station not approved, but voted to recommend the sum of \$250 be appropriated to abate nuisance arising from noise and smoke.

Art. 6. Approved.

Art. 7. Referred to Board of Public Works.

Art. 8. Approved, and voted to recommend the appropriation of \$225 to install same.

Art. 9. Approved.

Art. 10. Approved.

Art. 11. Voted that this be referred to the Board of Public Works.

Art. 12. Not approved.

Art. 13. Not approved.

HARRY M. EAMES
HENRY A. BODWELL
THOMAS E. RHODES
BERNARD M. ALLEN
SAMUEL H. BAILEY
GEORGE L. AVERILL
ALBERT W. LOWE
JOSEPH L. BURNS
JOHN H. CAMPION

Finance Committee

TOWN WARRANT

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the first day of March, 1915, at 6 o'clock A.M., to act on the following Articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, Pound Keeper, Fence Viewers, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous,

Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Acts of 1912, Redemption of Water Bonds and Andover Loan Bonds, Schools, School Houses, School Books and Supplies, Industrial School, Sewer Maintenance, Sewer Sinking Funds, Snow, Soldiers' Relief, Spring Grove Cemetery, Sidewalks, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will appropriate the sum of \$500 for repairs on the old schoolhouse at Ballard Vale, on recommendation of the Selectmen.

Article 5.—To see what action the town will take in regard to the removal of the Brick Pumping Station on Bancroft Road and the installation of a pumping station to take its place in a vault made for the purpose, said pumping station to be run by electricity instead of oil, and the appropriation of a sufficient sum of money for this purpose, on petition of Fred M. Temple and others.

Article 6.—To hear the report of the School Committee on High School plans, and to see if the town will vote to raise and appropriate the sum of one hundred thousand (\$100,000) dollars for the purpose of building and equipping a new high school building, and making the necessary changes in the Central Heating Plant, on petition of the School Committee.

Article 7.—To see if the town will vote to extend the sewerage system to Abbott and Marland Villages, and appropriate a sum of money therefor, on petition of Daniel Hart and others.

Article 8.—To see if the town will appropriate money for a fire alarm box to be located near the residence of John E. Hutcheson on Summer Street, on petition of John J. Cady and others.

Article 9.—To see if the town will appropriate the sum of \$1500 to erect a barn and shed for the purpose of housing the

horses, carts, plows, wagons, watering carts, and other properties under the care of the Board of Public Works, on petition of the Board of Public Works.

Article 10.—To see if the town will appropriate the sum of \$200 to be spent for band concerts, on petition of the Board of Public Works.

Article 11.—To see if the town will vote to extend the water system from its present terminal at the residence of Horace E. Dyer on Rocky Hill Road, to the residence of Samuel Thomes, a distance of about 1400 feet, on petition of Samuel Thomes and others.

Article 12.—To see if the town will vote to assume the care of the Rogers Brook, so-called, from Main Street to Morton Street, and to see what sum of money the town will appropriate to pay the cost of the same, to provide adequate drainage, on petition of W. E. Lombard and others.

Article 13.—To see if the town will provide for the removal of dump and ashes, under the care of the Board of Public Works, and appropriate a sum of money therefor, on petition of the Andover Village Improvement Society.

Article 14.—To fix the pay of the firemen for the ensuing year.

Article 15.—To determine the method of collecting the taxes for the ensuing year.

Article 16.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 17.—To act upon the Report of the Town Officers.

Article 18.—To determine the amount of money to be raised by taxation the ensuing year.

Article 19.—To determine what disposition shall be made of unexpended appropriations.

Article 20.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock P.M.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least, before the time of said meeting, as directed by vote of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this thirteenth day of February, A.D. 1915.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

PUNCHARD FREE SCHOOL

BOARD OF TRUSTEES

REV. E. VICTOR BIGELOW	REV. C. W. HENRY
REV. NEWMAN MATTHEWS	S. H. BOUTWELL
FRANK T. CARLTON	HARRY M. EAMES
MYRON E. GUTTERSON	HARRY H. NOYES

Trustees

REPORT OF TREASURER

PRINCIPAL FUND

1914

January 1st

Cash in Bank,	\$ 1805 53	
Real Estate Mortgages,	74648 75	
	<hr/>	\$76454 28

December 31st

Real Estate Mortgages and Bonds	\$75988 75	
Cash in Bank,	465 53	
	<hr/>	\$76454 28

January 1st

Cash on hand,	\$1805 53	
Mortgages paid during year,	8110 00	
	<hr/>	\$9915 53

December 31st

Invested in New Mortgages	\$9450 00	
Cash on hand,	465 53	
	<hr/>	\$9915 53

INCOME

January 1st

Cash on hand,	\$1248 42	
Interest on Mortgages and Bonds,	3576 22	
	<hr/>	\$4824 64

EXPENDITURES

N. C. Hamblin, Principal,	\$ 800 00	
Edna G. Chapin, Instructor,	850 00	
Louise M. Farnsworth, Instructor,	595 00	
Helen M. Dunn, Instructor,	240 00	
Caroline M. Davis, Instructor,	800 00	
Insurance,	41 00	
Andover Nat'l Bank, Security Box,	5 00	
Harry H. Noyes, Treasurer,	200 00	
Expense,	12 45	
Henry Wardwell, Legal Services,	50 00	
Cash on hand,	1231 19	
	<hr/>	\$4824 64

BARNARD FUND

January 1st		
Cash on hand,	25 50	
Dividends,	40 00	
	<hr/>	\$65 50
Prizes awarded,		
1st prize, Arthur Rand Lewis,	20 00	
2nd prize, Katherine Annette Berry,	12 00	
3rd prize, Hector Newman,	8 00	
Cash on hand,	25 50	
	<hr/>	\$65 50

DRAPER FUND

January 1st		
Cash on hand,	\$1257 94	
Interest,	50 80	
	<hr/>	\$1308 74
Balance,	<hr/>	\$1308 74

GOLDSMITH FUND

January 1st		
Cash on hand,	\$251 72	
Interest,	10 14	
	<hr/>	\$261 86
Prizes awarded,		
Girls' Prize, Ada Brewster, '15,	5 00	
Boys' Prize, Eldred Wilson Larkin, '16,	5 00	
Cash on hand,	251 86	
	<hr/>	\$261 86

HARRY H. NOYES,
Treasurer

Examined and found correct,

FRANK T. CARLTON
Auditor

February 5, 1915

MEMORIAL HALL LIBRARY

FORTY-SECOND ANNUAL REPORT OF THE BOARD OF TRUSTEES

The Trustees hereby submit to the Town their annual Report for 1914, together with the complete Report of the Librarian.

Respectfully submitted,

E. KENDALL JENKINS
FREDERIC S. BOUTWELL
C. C. CARPENTER
JOHN ALDEN
ALFRED E. STEARNS
GEORGE F. SMITH
BURTON S. FLAGG

Trustees

Andover, Feb. 16, 1915

TRUSTEES OF MEMORIAL HALL LIBRARY
In account with the Town of ANDOVER, MASS.

RECEIPTS

Balance from last year,	\$3188 20
Income from Investments	3214 79
Town Appropriation	2300 00
Dog Tax	696 76
Fines	142 57
Gifts	8 75
	<hr/> \$9551 07

EXPENDITURES

Salaries	\$3057 13
Lighting and heating	512 01
Books, periodicals, etc.	887 93
Bookbinding	314 34
Repairs, etc.	315 79
Pictures repaired	16 08
Cash on hand	4447 79
	<hr/> \$9551 07

In the above statement of expenditures is included the cost of maintaining the Ballardvale Branch Library, which, itemized, is as follows:—

Running expenses, salaries, etc.	\$219 00
Lighting and heating	19 80
Repairs and supplies	62 88
Books purchased	115 25
	<hr/> \$416 93

Statement of Income and Expenses of the Trustees of Memorial Hall Library for the Year Ending January 20, 1915

INCOME

	Maint.	Books	Cornell	Total
Income from investments	\$2117 13	\$743 48	\$354 18	\$3214 79
Town appropriation	2300 00			2300 00
Dog Tax	696 76			696 76
Gifts	3 75	5 00		8 75
Fines	141 57	1 00		142 57
Total	\$5259 21	749 48	354 18	\$6362 87

EXPENDITURES

Salaries	\$2953 45		103 68	3057 13
Lighting and heating	398 46		113 55	512 01
Books, periodicals, etc.	159 90	728 03		887 93
Bookbinding	314 34			314 34
Repairs, etc.	315 79			315 79
Pictures repaired			16 08	16 08
Total	\$4141 94	728 03	233 31	5103 28
Unexpended reserve	*\$1117 27	21 45	120 87	1259 59

*This reserve is held for

- (a) Fire Escape — ordered by State Inspector of Buildings.
- (b) New Heating Plant.

Condition of Funds and Unexpended Income on hand Jan. 20, 1915

	Funds	Unex. Inc.
Maintenance Fund	\$46600 00	\$2319 22
Book Funds, General	13600 00	255 09
Book Funds, Special	3200 00	341 34
Cornell Fund, Permanent	5000 00	241 20
Cornell Fund, Purchase	2700 00	1084 85
Special		64 94
Total	\$71100 00	\$4306 64

INVESTMENTS

Bangor & Aroostook R. R., 4s	\$11000 00
Boston Elevated Co., 4s	10000 00
Chicago Railways Co., 5s	9962 50
Montreal Tramways Co., 5s	9962 50
Michigan State Tel. Co., 5s	4981 25
Pacific Tel. & Tel. Co., 5s	1000 00
Boston Elevated Co., 4½s	1000 00
Boston & Maine R. R., 4s	2000 00
Boston & Albany R. R. Co., 4½s, Equip. Trust	2981 10
Savings Banks	13500 00
Mortgage on Real Estate, 5%	4000 00
Am. Tel. & Tel. Co. 4 shs.	571 50
Principal, Cash	141 15
	<hr/>
Total	\$71100 00
Income cash on hand	\$4306 64
Principal cash on hand	141 15
	<hr/>
Total cash on hand	\$4447 79

FREDERIC S. BOUTWELL, *Treas.*

We certify that we have examined and found correct the above statements as of January 20, 1915, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash on deposit as shown has been verified and found correct.

BURTON S. FLAGG
GEORGE F. SMITH

Auditors

REPORT OF LIBRARIAN

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the library for the twelve months ending December 31, 1914.

The circulation for the year is 41130 volumes as opposed to 35737 last year. Of this number, 33138 books were issued at the main library and 7992 at Ballardvale. This record for a town of 7300 people shows a very satisfactory average per person and considering the branch alone, a truly remarkable use.

The constant development of the work at Ballardvale and the evident satisfaction and pride taken by the village in its library is proof that a wise step was taken in establishing it. The branch now has 837 volumes belonging to it and 143 loaned from the main library. These loans are now less frequently exchanged. Some new books are furnished each month and so far as possible the requests of readers are met. The juvenile books are constantly in demand, and one year has proved that the children of Ballardvale are more careful in the treatment of the library books than the children of Andover. Of two copies of the same book, that sent to the branch circulates more times before having to be rebound and is then in cleaner condition, than the one provided for the Memorial Hall Library.

The plan when starting this branch was to let it gradually become a reading-room, if the desires of the community developed in that direction. This fall, with the coming of colder weather, the branch librarian reported a decided tendency in people to linger and read. To meet this need, another table and more chairs were provided. An electric light was also placed at the top of the steep side steps that form its chief approach.

There seems no doubt that the Ballardvale branch is now an established and vital part of our library and no reason why it should not continue to do good work for years. The circulation may not always remain at the height reached during its first popularity; it will probably drop somewhat and find its fixed

normal, as is the case with all libraries. A few Ballardvale people still prefer to take their books from the main library and these are mostly families having children who come up daily to the High School, or men who want technical and scholarly works that a branch naturally would not have. The percentage of fiction borrowed is much larger than in Andover, but as the collection of books increases, they will doubtless be used for other purposes than recreative reading alone. But in furnishing the village with good and wholesome fiction only, we may consider the establishment of this branch more than justified.

Another plan outlined in last year's report has been carried out. This was to provide more adequate service for the three outlying district schools. Four traveling libraries have been purchased, each containing twenty-five books, with no duplicates. With the co-operation of the School Department, these libraries are to be loaned for stated periods to these distant schools. The sloyd classes are to provide shelves for their accommodation and the School Department will attend to their transportation. These libraries were ready for use on November first, but will not be placed in use until the winter term. With each library were provided some books especially for the use of the teacher. These collections will be valued by the school children who are prevented by distance from ready use of the library. The selection was carefully made, and while helpful and instructive, the books are all those that have been proved by actual experience to be liked and enjoyed by children.

The gifts of the year include several hundred volumes left us by the will of Miss Margaret Gray. Most of these books duplicated works already on our shelves, but were of use for Ballardvale. The most valuable among them was an unbound file of the International Studio. These have been bound and placed in the Memorial Hall Library. At Ballardvale, four little girls, the "October Club", contributed two dollars with the request that four books be purchased for the children's shelves. Other gifts have been made, books, money, and many plants and flowers,—always appreciated. Pansies that blossomed out of doors in December were our last garden flowers for the season.

In the report for 1913, attention was called to the difficulty of protecting our young people from harmful literature, both books and periodicals. Our periodical list contains only such publications as are above criticism on the score of sensationalism or questionable fiction or pictures. Practically all appear upon the "White List of Periodicals" approved by the Massachusetts Library Club.

Our juvenile books are chosen with the greatest care. The parents of Andover may feel absolutely sure that their children will obtain from the library no questionable story, for a book has to pass searching tests of material, style, ethics and good taste before it is admitted to our juvenile shelves. This collection now numbers about two thousand and it is our purpose to keep it small but select. The children are growing up all the time and new books, that is, new titles, are not so much in demand in this department, because the old favorites remain and the children themselves are always new, every year. We have constantly to replace standard juvenile authors, and we buy the best of the new stories, and books showing how to make and do things. Our teachers' fund also permits us to purchase books that are helpful along the lines of school studies, history, science, etc. We have withdrawn from the shelves this year a number of juvenile books. This is partly from lack of room, but largely because these children's books of an older generation, often otherwise unobjectionable, are not accurate in the scientific or historical information they convey. The use of this department is satisfactory; the proportion of children's books circulated being about one-third of the total number. The reference use of the library is large, particularly with the High School.

It is probable that the European war, expected to clear away so many difficulties and to adjust so many delicate balances, is going to have a pronounced influence upon the character of the fiction published. People are now occupying their brains with other problems than debatable stories or unpleasant discussions. English writers have been the chief offenders in this respect but American ones have not been far behind. The whole tone of the English-speaking press has changed during the last four months. With something really big to attract attention, with

pressing economic questions to adjust, there has been less "muck-raking". Moreover, at a time when no state or individual will spend money without forethought, it will be less easy for questionable fiction to get on the market. There has already been an improvement in our press publications and it seems likely that this change will continue.

To meet the marked and natural interest in a contest involving so much of the so-called civilized world, we have purchased a dozen or more books bearing on international relations. These have received steady use and there is a wide-spread revival of interest in European history and geography.

It is hoped another year to replace in the reference room some works that are out-dated and past their helpfulness.

On April first, Mr. Ballard Holt, who had served the town for practically forty years, first as librarian of the Memorial Hall, and after the re-organization of the library, as caretaker, resigned his position. The faithful service of Mr. Holt was appreciated by the many Andover people who knew him during his long period of public work.

We have now, only to present our annual story of overcrowded shelves and a reading-room too small for the number of people who use it. Not only that, but of a heating-apparatus inadequate through age and wear to the needs of the building. During the cold weather last February, we were obliged to close one day because the best efforts of the janitor failed to get the library thermometer above thirty-nine degrees. During even a moderately cold snap, a temperature of around fifty is not uncommon, and under such conditions people complain because we cannot keep the reading-room properly ventilated.

By weeding out all little-used or out-dated books, by ceasing to bind periodicals of which we have always kept a file, and by relegating to an already packed attic, sets that ought to be more accessible, we can still purchase the new books that the community has a right to expect from us. But the question is, how long can we keep on buying books when we sometimes have to move three hundred in order to put one in its proper place on the shelf?

Not long ago, a member of the school committee said to us:

"I have always found the town of Andover ready to respond to any reasonable request. When we asked for more money to pay our teachers, we got it. The trouble with you is, that you have never *asked* the town for the funds you need."

It is true that we have not, and it is also true that the town meeting of Andover is made up of reasonable citizens. They are taxpayers to be sure, but let them consider what they are getting for the money invested in the library. There are 7300 people in Andover. This year, the town contributed for our support \$2300,— *about thirty-four cents per capita for twelve months!* In return for this absurdly small sum, each individual had the free use of about 20000 volumes, 1000 of which were new during the year, with over fifty current periodicals and papers, to say nothing of expert service in finding information upon any desired subject.

Has any tax-payer in Andover invested *thirty-four cents* — for the year — in any other method that brings in returns in like proportion, to him and to his children? Is it *unreasonable* to think that our town would respond to a request that, once answered, would not be repeated for a generation to come?

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at Memorial Hall,	33138
Number issued at Ballardvale	7992
Total,	41130
Books sent to the districts,	1668
Percentage of fiction circulated,	70
Percentage of non-fiction circulated,	30
New borrowers registered, 1914,	359
Actual number of cards in use,	2285
Books added by purchase,	805
Books added by gift,	234
Total accessions,	1039
Books withdrawn, worn out, lost and paid for,	191
Total number of books in library,	21817
Volumes rebound,	423
Volumes, bound, periodicals, etc.	128

BALLARDVALE

Number of books issued for home use,	7992
Percentage of fiction circulated,	84
Percentage of non-fiction circulated,	16
Number of cards in use,	308

GIFTS TO THE LIBRARY

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from societies, the Andover Village Improvement Society, Phillips Academy Library, the October Club, and from the following individuals:

Mrs. J. R. Ashton; Miss G. H. Averill; Miss E. F. Brown; S. T. Byington; Miss J. B. Carpenter; E. W. Chapin; F. J. Firth; Miss M. E. Gray; David Hewes; Prof. E. Y. Hincks; Mrs. H. E. Kendall; Dr. G. H. McCollum; W. A. Mowry; Alfred Ripley; George Ripley; William Shaw; Mrs. J. H. Smith; Mrs. J. P. Taylor; Miss J. E. Twichell.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews.
Atlantic monthly.
Blackwood's magazine.
Bookman.
Book review digest.
Catholic world.
Century.
Country gentleman.
Christian Endeavor world, (gift).
Congressional world, (gift).
Country life in America.
Craftsman.
Cumulative book index.
Education.
Elementary school journal.
Forum.
Garden magazine, (gift).
Guide to nature, (gift).
Harper's magazine.
House beautiful, (gift).
Independent.
International studio, (gift).
Ladies' home journal.
Library journal.
Life.
Literary digest.
Littell's living age.
London weekly Times.
Missionary review of the world.
Modern mechanics and Popular electricity.
Nation.
National geographic magazine.
Nineteenth century.
North American review.
Outing.
Outlook.

Popular mechanics.
Popular science monthly.
Practical engineer.
Public libraries.
Punch, (gift).
Readers' guide to periodical literature.
St. Nicholas.
School arts magazine.
Scientific American.
Scribner's magazine.
Survey.
Technology review, (gift).
Official gazette, (gift).
Woman's Home Companion.
World's work.
Youth's companion.
Andover Townsman.
Boston Advertiser.
Boston Herald.
Boston Transcript.
Christian Science Monitor, (gift).
Lawrence Telegram.
New York Times.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School, are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take two books, provided that one only is fiction. This privilege is also given to the Punchard pupils. Teachers are permitted to draw ten books strictly for school use. These books are subject to the ordinary rules of the library.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book". Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction, is specially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued ten years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right hand drawers of the case contain a second arrange-

ment of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

NEW BOOKS ADDED IN 1914

State and government documents such as the Massachusetts Acts and Resolves, Manual of the General Court, etc., and annual reports regularly received and kept on file in the library for reference are not listed. Duplicates purchased for Ballardvale or for the traveling school libraries are also not included.

GENERAL REFERENCE BOOKS

040 A51	American Library Association. Index to general literature, supplement 1900-1910.
917.446 B67d	Boston, Mass. Directory, 1914.
345.42 M38o	*Mass.-Attorney general. Official opinions, 1905-12.
423 S785	New Standard Dictionary.
920.07 W62	Who's who in America, 1914-15.
317 W89	World almanac, 1914.

PERIODICALS

051 A881	Atlantic monthly, v. 112.
052 B56	Blackwood's Edinburgh magazine, v. 194.
051 C33	Century, v. 87, 88.
052 C76	Contemporary review, v. 104.
705 C84	Craftsman, v. 25, 26.
052 E21	Edinburgh review, v. 217, 218.
051 F77	Forum, v. 50.
716 G16	*Garden magazine, v. 18, 19.
051 H23	Harper's magazine, v. 127-129.
705 H81	*House beautiful, v. 34, 35.
705 I61	*International studio, v. 51-53.
020.5 L61	Library journal, v. 38.
051 L71	Littell's living age, v. 279-281.
071 N21	Nation, v. 97.
910.5 N21	National geographical magazine, v. 24, pt. 2, 25, pt. 1.
052 N62	Nineteenth century, v. 75.
051 N81	North American review, v. 198.
799.5 O94	Outing, v. 63, 64.
051 O94	Outlook, v. 105-107.
621 P81	Popular mechanics, v. 20, 21.
505 P81	Popular science monthly, v. 83.
020.5 P96	Public libraries, v. 18.

* Gifts

051 R23	Review of reviews, v. 48.
051 S147	St. Nicholas, v. 41.
605 S416	Scientific American, v. 109.
051 S434	Scribner's magazine, v. 54.
305 S96	Survey, v. 30, 31.
051 W89	World's work, v. 27, 28.

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

172.4 A58	Angell, Norman. The great illusion.
220.9 B22	Banks, E. J. Bible and the spade.
252 B81q	Brown, C. R. Quest of life.
131 C11	Cabot, R. C. What men live by.
225.5 F91	*Firth, F. J. ed. Holy gospel; a comparison of the Protestant and Roman Catholic versions.
173 G92	Gruenberg, S. M. Your child to-day and to-morrow.
266 H55	Hill, J. L. The immortal seven.
612 H76	Hood, M. G. For girls and the mothers of girls.
193 K13	Kant, Immanuel. Critique of pure reason.
268 S63g	*Slattery, Margaret. Girl in her teens.
267.6 W46	*Wells, A. R. Expert endeavor.

GENERAL ECONOMICS

174 A42	Allen, F. J. The law as a vocation.
325 A63	Antin, Mary. They who knock at our gates.
362 C16	Cannon, I. M. Social work in hospitals.
320 D68	Dole, C. F. The American citizen.
658 D97	Dwyer, I. E. The business letter.
396 L36	Laughlin, C. E. The workaday girl.
396 N27	Nearing, Scott. Woman and social progress.
374 R25w	Reely, M. K. comp. Selected articles on world peace.
328 R54l	Roberts, K. L. comp. Club woman's handybook.
194.4 R76	Rousseau, J. J. Social contract.
396 S95	Sumner, H. L. Equal suffrage.
320 W15	Wallas, Graham. Human nature in politics.
396 W37	Weaver, E. W. Vocations for girls.
331.4 W86	Woods, R. A. Young working girls.

BOOKS ON EDUCATION

(Purchased from the Phillips Fund for Books for Teachers)

371.9 A97	Ayres, L. P. Laggards in our schools.
372.5 B153	Bailey, H. T. Art education.
371 B46	Betts, G. H. New ideas in rural schools.
371 B46r	Betts, G. H. The recitation.

- 370.1 B62 Bloomfield, Meyer. Vocational guidance of youth.
 372.6 C15 Campagnac, E. T. Teaching of composition.
 371.4 C67 Cole, P. R. Industrial education in the elementary school.
 372.6 C77 Cooley, A. W. Language teaching in the grades.
 370 C89 Cubberley, E. P. Changing conceptions of education.
 371 C89 Cubberley, E. P. Improvement of rural schools.
 370 D51i Dewey, John. Interest and effort in education.
 370 E42e Eliot, C. W. Education for efficiency.
 370 E42t Eliot, C. W. Tendency to the concrete and the practical in modern education.
 370 E53 Emerson, R. W. Education.
 373 E92 Evans, G. W. Teaching of high school mathematics.
 370 H38 Henderson, C. H. What is it to be educated?
 371.9 H87 Huey, E. B. Backward and feeble-minded children.
 371.1 H99 Hyde, W. DeW. Teacher's philosophy.
 372 K55 Kilpatrick, W. H. The Montessori system examined.
 373 L58 Lewis, W. D. Democracy's high school.
 371.9 M27 Maennel, B. Auxiliary education.
 377 P18 Palmer, G. H. Ethical and moral instruction in schools.
 371.1 P18 Palmer, G. H. Ideal teacher.
 371.1 P42 Perry, A. C. Status of the teacher.
 371.1 P94 Prosser, C. A. Teacher and old age.
 371 S664e Smith, W. H. Evolution of Dodd.
 370.1 S77 Snedden, David. Problem of vocational education.
 372.7 S96 Suzzallo, Henry. Teaching of primary arithmetic.
 372.4 S96 Suzzallo, Henry. Teaching of spelling.
 371.1 T27 Terman, L. M. The teacher's health.
 370 T39 Thorndike, E. L. Individuality.
 371.4 T75 Trowbridge, A. W. The home school.
 370.1 W40 Weeks, R. M. The people's school.

BOOKS FOR THE HOME AND FARM

- 646 A43 Allington, S. M. Practical sewing and dressmaking.
 635 B63 Bolte, J. W. Backyard farmer.
 643 C43 Child, G. B. The efficient kitchen.
 635 C81 Corbett, L. C. Garden farming.
 649 D37 Delano and McIsaac. American Red Cross textbook on hygiene and home care of the sick.
 595.7 F11 Fabre, J. H. C. Life of the fly.
 710 F25 *Farwell, P. T. Village improvement.
 646 G36 Gifford, M. K. Needlework.
 395 H14g Hall, F. H. Good form for all occasions.
 636.7 H33 Haynes, William. Practical dog keeping.
 645 H91 Hunter, G. L. Home furnishing.
 746 K68f Klickmann, Flora, ed. Home art book of fancy stitchery.

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| 796 L72 | Little, R. D. Tennis tactics. |
| 636.5 M22 | Macleod, Alice. Pigeon raising. |
| 684 M13 | McClure, Abbot. Making built-in furniture. |
| 641 N31 | Neil, M. H. Canning, preserving and pickling. |
| 745 P931 | Priscilla fancy work instruction books. 4v. |
| 636.5 R56o | Robinson, J. H. Our domestic birds. |
| 749 S52 | Shackleton, Robert. Charm of the antique. |
| 634.9 C42 | Cheyney and Wentling. Farm woodlot. |

GAMES AND AMUSEMENTS

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| 613.7 B63 | Bolton, Florence. Exercises for women. |
| 793 C27 | Castle, Vernon. Modern dancing. |
| 790 C94 | Curtis, H. S. Play and recreation for the open country. |
| 796 H19 | *Hanks, C. S. Hints to golfers. |
| 391 H74 | Holt, Ardern. Fancy dresses described. |
| 796 P22 | *Park, William. Game of golf. |
| 796 T21 | *Taylor, J. H. Golf; impressions, etc. |
| 793 T79 | Tucker and Ryan. Historical plays of colonial days. |

BOOKS ON MECHANICAL AND FINE ARTS

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| 716 A21 | Adams, H. S. Flower gardening. |
| 716 A95 | Averill, Mary. Japanese flower arrangement. |
| 728 B631 | Book of little houses. |
| 792 B81 | Browne, Van Dyke. Secrets of scene painting and stage effects. |
| 759.4 B81 | *Brownell, W. C. French art. |
| 781 D27 | Davenport, F. Elements of harmony and counterpoint. |
| 621 H16 | Halsey, F. A. Methods of machine shop work. |
| 745 H52 | Hicks, A. M. Craft of handmade rugs. |
| 740 K81 | Koch, G. W. Pencil sketching. |
| 750 M78 | *Moore, George. Modern painting. |
| 694 N87 | Noyes, William. Design and construction in wood. |
| 751 P79 | Poore, H. R. Pictorial composition. |
| 579 P89 | Pray, L. L. Taxidermy. |
| 927.3 S42g | *Scott, Leader. Ghiberti and Donatello. |
| 537 S52 | Shafer, D. C. Harper's beginning electricity. |
| 740 S74 | *Speed, Harold. Practice and science of drawing. |
| 750 S93 | *Sturgis, Russell. Appreciation of pictures. |
| 627.9 T14 | Talbot, F. A. Lightships and lighthouses. |
| 654 V61 | Verrill, A. H. Harper's wireless book. |
| 745 W58m | White, Mary. More baskets and how to make them. |

LITERATURE, ESSAYS AND POETRY

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| 809 A56 | Andrews, Charlton. The drama to-day. |
| 822 B17 | Barker, Granville. Three plays. |
| 843 B43o | *Bazin, Rene. Les Oberle. |

808 B43	Bennett, E. A. The author's craft.
843 C36f	*Chantepleure, Guy. La folle histoire de Fridoline.
822.33 C36	*Chapin, E. W. Evenings with Shakespeare.
809.2 C54	Clark, B. H. Continental drama of to-day.
821.08 C85	*Crandall, C. H. Representative sonnets.
843 F27	*Favre de Coulevain. Sur la branche.
808 F82	Fowler, N. C. Stories and toasts for after dinner.
822 G13m	Galsworthy, John. The mob.
822 G13s	Galsworthy, John. Plays.
822 G35	Gibson, W. W. Daily bread.
821 G35f	Gibson, W. W. Fires.
818 G79r	Grayson, David. Friendly road.
809.2 H13	Hale, E. E., Jr. Dramatists of to-day.
822 K38s	Kennedy, C. R. Servant in the house.
822 K38t	Kennedy, C. R. The terrible meek.
822 K42	Kenyon, Charles. Kindling.
810.9 L85	Long, W. J. American literature.
822 M19s	Mackaye, Percy. Sanctuary.
822 M19t	Mackaye, Percy. Thousand years ago.
822 M22	MacMillan, Mary. Short plays.
421 M31	Manly and Powell. Manual for writers.
821 M37e	Masefield, John. Everlasting mercy, etc.
821 M37s	Masefield, John. Story of a round-house, etc.
817 M38	Masson, T. L. comp. Best stories in the world.
809.2 M85	Moses, M. J. American dramatist.
809.2 N38	Nettleton, G. H. English drama of the restoration.
821 N87w	Noyes, Alfred. The wine-press.
655 O64	Orcutt, W. D. Author's desk book.
822 P31w	Peabody, J. P. Wolf of Gubbio.
821 R45n	*Riley, J. W. Neighborly poems.
824 R51f	Ritchie, A. I. T. From the porch.
824 S19	Sampson, Alden. Studies in Milton.
821.08 S53	*Sharp, William, ed. Sonnets of the century.
822 S53mi	Shaw, G. B. Misalliance, etc.
821 S748b	*Spenser, Edmund. Britomart.
830.7 W61	*Whitney, W. D. Brief German grammar.

DESCRIPTION AND TRAVEL

914.53 A42	*Allen, Grant. Venice. 2v.
917.3 B14	Baedeker, Karl, comp. The United States.
915.32 B95	Burton, Sir R. F. Personal narrative of a pilgrimage to Al-Madinah and Meccah. 2v.
916.6 G65	Gordon, H. C. Woman in the Sahara.
917.3 H89	Hungerford, Edward. Personality of American cities.
914.5 H97r	Hutton, Edward. Cities of Romagna and the marches.
914.14 L25	Lang, Andrew. Highways and byways in the border.

- 915.4 M92 Munson, Arley. Jungle days.
 914.2 O81a Osborne, A. B. As it is in England.
 918.1 R67 Roosevelt, Theodore. Through the Brazilian wilderness.
 914.5 S55 Sherrill, C. H. Stained glass tour in Italy.
 917.94 W85 Wood, R. K. The tourist's California.

BIOGRAPHY

- 92 W213 Durand, G. H. Joseph Ward of Dakota.
 92 V285h *Head, P. R. Van Dyck.
 92 H362 Hegermann-Lindencrone, L. de. In the courts of memory.
 92 S527h *Hudson, H. N. Shakespeare. 2v.
 92 B813 *Hueffer, F. M. Ford Madox Brown.
 92 J233n James, Henry. Notes of a son and brother.
 92 R54 Mackie, R. L. Robert the Bruce.
 92 M872 *Mowry, W. A. Recollections of a New England educator.
 929.2 H492 *Putnam, Eben, comp. Lieutenant Joshua Hewes and his descendants.
 92 P984 Putnam, G. H. Memories of my youth, 1844-1865.
 927.3 S42r *Scott, Leader. Luca della Robbia.
 92 S822 Steiner, E. A. From alien to citizen.
 92 S851 Stewart, E. P. Letters of a woman homesteader.
 92 W591 Whitlock, Brand. Forty years of it.
 *Vital records of Abington, Brockton, Dunstable, Kingston, Reading, Tewksbury, Wakefield, West Bridgewater.

HISTORY

- 904 A88 Atteridge, A. H. Famous modern battles.
 973 B38 Beard, C. A. Contemporary American history, 1877-1913
 940.9 C84 Cramb, J. A. Germany and England.
 972 D37 De Lara and Pinchon. The Mexican people.
 940 G76 Grant, A. J. History of Europe.
 940.9 G78 Graves, A. K. Secrets of the German war office.
 940.9 H25 Hart, A. B. The war in Europe.
 917.445 J13 Jackson, S. E. Reminiscences of Andover.
 972 M83s Morris, Charles. Story of Mexico.
 973.74 R62th *Roe, A. S. Thirty-ninth regiment, M. V. I. 1862-65.
 949.6 S39 Schurman, J. G. The Balkan wars, 1912-13.
 945 S44 Sedgwick, H. D. Short history of Italy.
 940.9 S63 Sladen, Douglas. Real "Truth about Germany".
 944 T17 Tardieu, André. France and the alliances.
 943 T65 Tower, Charles. Germany of to-day.
 943 U85 Usher, R. G. Pan-Germanism.
 940.9 W89 World's work. War manual.

FICTION

- Adams, S. H. The Clarion.
Altsheler, J. A. Herald of the west.
Andrews, M. R. S. Eternal masculine.
Arnim, M. A. B. Pastor's wife.
Austin, Mary. The lovely lady.
*Barclay, F. L. C. The broken halo.
Bennett, E. A. Price of love.
Benson, E. F. Thorley weir.
Benson, R. H. An average man.
Benson, R. H. Mirror of Shalott.
Bindloss, Harold. Prescott of Saskatchewan.
Booth, E. C. The doctor's lass.
Booth, E. C. The post-girl.
Bosher, K. L. House of happiness.
Brady, C. T. Island of the stairs.
Brown, Alice. Paradise.
Brown, Alice. Robin Hood's barn.
Brown, H. D. Mr. Tuckerman's nieces.
Bryant, Marguerite. Dominant passion.
Buckrose, Mrs. J. E. Gay morning.
Burnham, C. L. The right track.
Butler, E. P. Jack-knife man.
Caine, Hall. Eternal City.
Caine, William. Irresistible intruder.
Conrad, Joseph. Chance.
*Coppee, Francois. Days of my youth.
Couch, A. T. Q. Hocken and Hunken.
Crockett, S. R. Sandy.
Crockett, S. R. Silver sand.
Curtis, I. G. The congresswoman.
Dawson, Coningsby. The raft.
Dean, M. M. Bars between.
De Morgan, William. When ghost meets ghost.
Doubleday, Roman. The Saintsbury affair.
Doyle, Sir A. C. Poison belt.
Duncan, Frances. My garden doctor.
Erskine, Payne. Eye of dread.
Ferber, Edna. Buttered side down.
Ferber, Edna. Personality plus.
Findlater, Mary. Crossriggs.
Findlater, Mary. A narrow way.
Fuller, C. M. Across the campus.
Gordon, C. W. Patrol of the Sun dance trail.
Grimshaw, Beatrice. Guinea gold.
Hagedorn, Hermann. Faces in the dawn.

Hall, Holworthy. Henry of Navarre, Ohio.
 Hannay, J. O. General John Regan.
 Hannay, J. O. Lost tribes.
 Hannay, J. O. Priscilla's spies.
 Hannay, J. O. The Simpkins plot.
 Harrison, Herbert. Lad of Kent.
 Harrison, H. S. Captivating Mary Carstairs.
 Hartman, L. F. The white sapphire.
 Hawkins, A. H. Phroso.
 Hay, Ian. Knight on wheels.
 Henry, O. Whirligigs.
 Hillis, N. D. Story of Phaedrus.
 Hinkson, K. T. A mesalliance.
 Hopkins, W. J. Burbury Stoke.
 *Hutchinson, E. S. Pair of little patent leather boots.
 Jacobs, W. W. Captains all.
 Jokai, Maurus. Hungarian nabob.
 Jokai, Maurus. The nameless castle.
 Jordan, Humfrey. Carmen and Mr. Dryasdust.
 Kirkland, Winifred. Boy editor.
 Lagerlof, Selma. Liliacrona's home.
 Lee, Jennette. Happy island.
 Lee, Jennette. Woman in the alcove.
 Lewis, Sinclair. Our Mr. Wrenn.
 Lincoln, J. C. Cap'n Dan's daughter.
 Lincoln, J. C. Woman-haters.
 Lincoln, N. S. Man inside.
 Locke, W. J. Fortunate youth.
 London, Jack. John Barley-corn.
 Lynde, Francis. Honorable Senator Sagebrush.
 Lynn, Margaret. Stepdaughter of the prairies.
 McCutcheon, G. B. Nedra.
 McCutcheon, G. B. Prince of Graustark.
 MacHarg and Balmer. The Surakarta.
 Marshall, Archibald. Honour of the Clintons.
 Martin, G. M. Selina.
 Martin, H. R. Barnabetta.
 Mason, A. E. W. Witness for the defence.
 Mitchell, J. A. Pines of Lory.
 Moffatt, Cleveland. Land of mystery.
 Murfree, M. N. Story of Duciehurst.
 Newlin, Katherine. Penelope intrudes.
 Norris, Kathleen. Saturday's child.
 Norris, Kathleen. The treasure.
 O'Brien, H. V. New men for old.
 Oppenheim, E. P. The vanished messenger.

Overland Red.

*Paine, A. B. "Peanut".

Palmer, Frederick. The last shot.

Peattie, E. W. The precipice.

Peel, D. C. The hat shop.

Phillpotts, Eden. Faith Tresilion.

Phillpotts, Eden. The human boy.

Pool, M. L. The Red-bridge neighborhood.

Pratt, Lucy. Ezekiel expands.

Reynolds, Mrs. B. Doubtful character.

Rice, A. H. The Honorable Percival.

Richards, Grant. Valentine.

Richmond, G. L. S. Twenty-fourth of June.

Ridge, W. P. Remington sentence.

Rinehart, M. R. The afterhouse.

Rinehart, M. R. Amazing adventures of Letitia Carberry.

Rinehart, M. R. Street of seven stars.

Roberts, H. C. A free hand.

Sidgwick, Ethel. Lady of desire.

Sienkiewicz, Henryk. In desert and wilderness.

Snedeker, C. D. The Spartan.

Stanley, C. A. Keeper of the vineyard.

Sterrett, F. R. The jam girl.

Tarkington, Booth. Penrod.

Turnbull, Margaret. Looking after Sandy.

Van Schaick, George. Sweetapple Cove.

Walpole, Hugh. Duchess of Wrexhe.

Ward, M. A. A. Delia Blanchflower.

Warner, A. F. Sunshine Jane.

Watts, M. S. Rise of Jennie Cushing.

Webster, H. K. The butterfly.

Wells, Carolyn. Anybody but Anne.

Wells, H. G. History of Mr. Polly.

Wells, H. G. Tono-Bungay.

Wells, H. G. War of the worlds.

Yeats, W. B. Stories of Red Hanrahan.

CHILDREN'S BOOKS — NON-FICTION

600 A42e	Allen, N. B. Industrial studies; Europe.
793 B15	Bailey, C. S. Children's book of games and parties.
973 B29	Bass, Florence. Stories of pioneer life.
796 B37s	Beard, D. C. Shelters, shacks and shanties.
790 B38l	Beard, Patten. Jolly book of boxcraft.
92 F854b	Brooks, E. S. True story of Benjamin Franklin.
92 G766br	Brooks, E. S. True story of U. S. Grant.
914.94 C15	Campbell, H. L. Story of little Konrad the Swiss boy.

- 796 C31c Cave, Edward. Boy's camp book.
 796 C31 Cave, Edward. Boy scout's hike book.
 915 C35 Chamberlain, J. F. Asia.
 92 C967b Custer, E. B. The boy general, George A. Custer.
 927 C98 Cyr, E. M. Story of three great artists.
 595.7 D55 Dickerson, M. C. Moths and butterflies.
 620 D74 Doubleday, Russell. Stories of inventors.
 973.3 D91 Duncan, R. B. Brave deeds of Revolutionary soldiers.
 940 E49 Elson and MacMullan. Story of the Old world.
 973 E49s Elson and MacMullan. Story of our country.
 550 F15 Fairbanks, H. W. Stories of rocks and minerals.
 973.3 F54i Fiske, John. War of Independence.
 914.56 G28 Genn, C. T. Rome.
 92 L767g Golding, Vautier. Story of David Livingstone.
 914.55 G87 Grierson, Elizabeth. Florence.
 92 S431g Grierson, Elizabeth. Sir Walter Scott.
 938 G93g Guerber, H. A. Story of the Greeks.
 937 G93r Guerber, H. A. Story of the Romans.
 914.92 H14 Hall, M. E. Dutch days.
 680 H14 Hall, A. N. The handy boy.
 355 H18 Hammond, Harold. West Point.
 92 N161h Hathaway, E. V. Napoleon, the little Corsican.
 929.9 H71 Holden, E. S. Our country's flag.
 927 H78 Horne and Scobey. Stories of great artists.
 917.3 H79 Hotchkiss, C. W. Representative cities of the United States.
 398.4 J15i Jacobs, Joseph. Indian fairy tales.
 904 J66 Johonnot, James. Stories of heroic deeds.
 915.6 K12 Kaleel, M. J. When I was a boy in Palestine.
 92 A6681a Lang, Andrew. Story of Joan of Arc.
 292 L25t Lang, Andrew. Tales of Troy and Greece.
 92 C776l Lang, John. Story of Captain Cook.
 398.2 L29l Lansing, M. F. ed. Life in the greenwood.
 398.4 L29t Lansing, M. F. comp. Tales of Old England.
 92 B646l Lindsay, C. H. Forbes- Daniel Boone, backwoodsman.
 398.2 L66 Lippincott, Mrs. S. J. C. Stories from famous ballads.
 821.08 L96b Lucas, E. V. Book of verses for children.
 914.4 M14 McDonald, E. B. Colette in France.
 973 M227p McMaster, J. B. Primary history of the United States.
 398.4 M26 Maeterlinck, Maurice. The bluebird for children.
 598.2 M61f Miller, O. T. First book of birds.
 598.2 M61s Miller, O. T. Second book of birds.
 533.6 M61 Miller, C. M. Kitecraft and kite tournaments.
 92 L633mo Moores, C. W. Life of Abraham Lincoln.
 970.1 M79 Moran, G. N. Kwahu the Hopi Indian boy.
 926 P42 Perry, F. M. Four American inventors.

793 P42	Perry, S. G. S. When Mother lets us act.
353 R27	Reinsch, P. S. Young citizen's reader.
92 N564r	Richards , L. E. Florence Nightingale.
92 C967	Sabin , E. L. On the plains with Custer.
372 S62	Skinner and Lawrence. Little dramas for primary grades.
338 T61	Toothaker, C. R. Commercial raw materials.
970.1 W56	Wheeler, F. R. Boy with the United States Indians.
810.9 W58	Whitcomb, I. P. Young people's story of American literature.
821.08 W61	Whittier, J. G. ed. Child life, a collection of poems.
914.436 W67	Williams, Margery. Paris.
904 W85	Wood, Eric. Boy's book of battles.

STORIES FOR CHILDREN

Altsheler, J. A.	Apache gold.
Altsheler, J. A.	Guns of Bull Run.
Altsheler, J. A.	Guns of Shiloh.
Altsheler, J. A.	Scouts of Stonewall.
Altsheler, J. A.	Sword of Antietam.
Altsheler, J. A.	Texan triumph.
Barbour, R. H.	Around the end.
Baylor, E. M. H.	Little prospector.
Brown, A. F.	Lucky stone.
Brown, E. A.	When Max came.
Bunyan, John.	John Bunyan's dream story.
Comstock, H. T.	Camp Brave Pine.
Dudley, A. T.	Following the ball.
Dudley, A. T.	A full-back afloat.
Eaton, W. P.	Boy scouts of Berkshire.
Eaton, W. P.	Boy scouts in the Dismal Swamp.
Eaton, W. P.	Boy scouts in the White Mountains.
Forbes, C. B.	Elizabeth's charm string.
Forrester, I. Z.	Those Preston twins.
French, Allen.	The runaway.
Gilchrist, B. B.	Helen and the Find-out club.
Gilchrist, B. B.	Helen and the uninvited guests.
Gilchrist, B. B.	Helen over-the-wall.
Hough, Emerson.	Young Alaskans in the Rockies.
Jacobs and Richards.	Blue Bonnet in Boston.
Knipe, A. A.	Captain of the eleven.
Knipe, A. A.	The last lap.
Lothrop, H. M. S.	Five little Peppers in the little brown house.
Mason, A. B.	Tom Strong, boy-captain.
Mason, A. B.	Tom Strong, Washington's scout.
Paine, R. D.	The steam-shovel man.
Pearson, E. L.	Voyage of the Hoppergrass.

Perkins, L. F. Irish twins.
Pier, A. S. Grannis of the fifth.
Quirk, L. W. Freshman eight.
Remick, G. M. Glenlock girls at Camp West.
Remick, G. M. Jane Stuart's chum.
Richards, L. E. Quicksilver Sue.
Smith, M. P. W. Two in a bungalow.
Thurston, I. T. The torch bearer.
Wallace, Dillon. Wilderness castaways.
Wheeler, F. R. Boy with the United States explorers.
Zollinger, Gulielma. Maggie McLanehan.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library:

GENTLEMEN:— I herewith submit the report of the gallery for the twelve months ending December 31, 1914.

The attendance for the year has been 824. Of this number 265 were adults and 559 children. The majority of the adult visitors have either been persons passing through the town, or tarrying here for a short time. All have expressed much interest in the collection, frequently asking if the townspeople came often to the gallery.

Some of the children have been sent by their teachers for picture study. This is most encouraging and should be kept up. The children should feel that their visit to the gallery is for a definite purpose, and not an aimless one. They have an object in going to the library. It should be the same in regard to the gallery.

The gallery has been greatly enriched by eight large steel engravings of Raphael's wonderful frescoes in the Stanze of the Vatican. These pictures are the gift of Mrs. Susan C. Dove, and should be much prized both for their value and as a memento of one who was keenly interested in art. It is most gratifying to see the interest shown in these fine reproductions, not only by many of the adults, but by some of the children.

It is hoped that during the coming year many of the townspeople will visit the gallery for the express purpose of closely studying these great works of Raphael, thereby realizing as never before, his right to be called a master in space composition.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

FIFTEENTH
ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE TWENTY-SIXTH ANNUAL REPORT OF
WATER COMMISSIONERS AND EIGHTEENTH
ANNUAL REPORT OF SEWER
COMMISSIONERS

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1914

ANDOVER, MASS.
THE ANDOVER PRESS
1915

WATER COMMISSIONERS

1889—1899

JOHN H. FLINT

*JAMES P. BUTTERFIELD

FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

1894—1899

*WM. S. JENKINS

*WM. S. JENKINS

JOHN L. SMITH

JOHN L. SMITH

CHAS. E. ABBOTT

JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

1903—1906

JOHN H. FLINT

JOHN L. SMITH

*WM. S. JENKINS

FELIX G. HAYNES

JOHN L. SMITH

JOHN W. BELL

*JAMES P. BUTTERFIELD

LEWIS T. HARDY

FELIX G. HAYNES

JAMES C. SAWYER

1906—1907

FELIX G. HAYNES

JAMES C. SAWYER, Secy.

JOHN W. BELL, Treas.

LEWIS T. HARDY

HARRY M. EAMES

1907—1908

FELIX G. HAYNES

JAMES C. SAWYER, Secy.

JOHN W. BELL, Treas.

LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

LEWIS T. HARDY

JAMES C. SAWYER, Secy.

JOHN W. BELL, Treas.

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1915

1913—1916

ANDREW McTERNEN, Sec'y, '14

LEWIS T. HARDY

WILLIS B. HODGKINS, Treas., '14

BARNETT ROGERS

1913—1917

THOMAS E. RHODES, Chairman, '14

SUPERINTENDENT

FRANK L. COLE

*Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover:

Your Board of Public Works submit their second annual report (actual service from May 5, 1913), which is also the twenty-sixth of the Water System, and the eighteenth of the Sewer System, for the year ending December 31, 1914. This is the new date for the fiscal year ending, and which brings two fiscal year endings in one calendar year. This is also the second annual report of the Highway and Park departments under the Board of Public Works.

ORGANIZATION

On the re-election of T. E. Rhodes for three years, the personnel of the Board of Public Works remain the same as last year, viz: Barnett Rogers, Lewis T. Hardy, Willis B. Hodgkins, Andrew McTernen, and Thomas E. Rhodes. The organization of the present Board of Public Works occurred March 10, 1914, with the following rank, viz: Chairman, Thomas E. Rhodes; Secretary, Andrew McTernen; Treasurer, Willis B. Hodgkins. On the resignation of Mr. F. L. Cole from the Water and Sewer departments these departments were supervised by Arthur R. Morse, clerk of the Board, until April 27, 1914, when there occurred a vacancy in the Highway and Park departments by the dismissal of Mr. G. W. Wood. The Board then re-appointed Mr. F. L. Cole as Superintendent of all the departments under the control of the Board of Public Works. Mr. F. L. Cole was appointed for the ensuing political year, at a salary of \$2000.00 per year. On account of the impossibility for the Superintendent to efficiently supervise all the departments under his care, with a horse and carriage, the Board considered it wise to purchase a Ford truck for his use. The experiment proves a success.

WATER DEPARTMENT

For a detailed account of the Water Department see the report of the Superintendent and the Comparative Statistics. There has been a decided increase of water main extension this year, nearly two miles. Our present milage is 49.64 miles a gain of 1.94 miles for the year 1914. With this increase of milage there has been an increase of hydrants, meters, service pipes in use, gallons pumped, net maintenance, net maintenance per million gallons, a decrease in pumping cost per million gallons, and a decrease in revenue from water rates and per million gallons. The unit cost per million gallons in 1913 was \$56.42, the unit revenue per million gallons was \$99.58, leaving a margin per million gallons of \$43.16. In 1914 the unit cost per million gallons was \$62.72, the unit revenue per million gallons was \$83.47, a margin of only \$21.35, a decrease of \$21.81 in comparison to 1913. This great decrease in the relation of cost and revenue is accounted for, in part, by the change in the fiscal year ending from January 12, 1914, to December 31, 1914. This change deprives the year 1914 of a large part of the revenue from water rates due January 1, 1915. Another factor in affecting the relation between cost and revenue is the fluctuation of the cost of maintenance, which in the past has reached as high as 40%. The tendency of the cost of maintenance to increase in the future is apparent from the fact that there must be a diminishing stability in the whole water system. We recommend that the sum of \$10,000.00 be appropriated for maintenance, \$6,000.00 for construction, and \$750.00 for sinking fund.

THE REMOVAL OF THE HIGH PRESSURE PUMPING PLANT

At the annual meeting of 1914, the question of the removal of the high pressure pumping plant was "referred back to the Board of Public Works to be reported at our next annual meeting." Your Board has considered the advisability and the merits of the request of those interested in the removal of this plant, and made some investigation related to this removal which will be given when necessary. The attitude of the Board is not unanimous as to the necessity of the removal of this plant, therefore, we would recommend that the voters give the question

an impartial consideration and dispose of it according to their best judgment.

THE WATER BONDED DEBT.

The bonded debt of the Water System is \$184,000.00, the same as last year. In 1914 the balance of bonds authorized by the Town, \$10,000.00, were sold and \$10,000.00 of bonds formerly issued, were retired by the annual appropriation. Of the above amount of indebtedness, \$50,000.00 is redeemable by sinking funds, which now amount to \$29,984.13, and an appropriation of \$750.00 is asked for the Sinking Funds Account.

The money which comprises this fund has been distributed in eleven different savings banks at an average of 4% interest rate. In January of the current year The Andover National Bank made an offer to pay 4% interest, compounded semi-annually, on the total amount of money held by the Board with the exception of that in The Andover Savings Bank. As this offer included over \$11,000.00 of Sewer Loans Funds then in the Andover National Bank, drawing a nominal interest, the proposition was accepted by your Board and the transfer of funds in various banks is being accomplished without loss of interest.

THE SEWER DEPARTMENT

For a detailed account of the Sewer Department see the report of the Superintendent. The chief feature to report in this department is the repair and upkeep of the filter beds which have been excellent and satisfactory to the State Board of Health. There is one condition in our sewer department which is a source of expense and annoyance, this is the sewer pump on Phillips street. There are two ways to remedy this evil. One way is to install a new pump of the centrifugal type with electric motive power, the other, and we believe, the most effective, is to continue the sewer main down Central street to the Shawsheen river and empty therein. This plan would be along the lines proposed by the Abbott Village sewer plan. This, of course, could only be done on the authority of the State Board of Health. We recommend that the sum of \$1,800.00 be appropriated for maintenance.

THE SEWER BONDED DEBT

The sinking fund is \$13,172.97, \$3,000.00 of bonds mature in 1919 and \$30,000.00 in 1928, leaving net bonded debt of \$19,827.03. An appropriation of \$1,000.00 is asked for. The Sewer Sinking Fund is now drawing interest at same rate as the water sinking fund.

THE HIGHWAY DEPARTMENT

HIGHWAY CONDITIONS

Our highway conditions show marked improvement over last year, and we believe for the following causes, viz: 1—A larger sum was appropriated; 2—a definite policy was pursued as to the character and direction of the improvement needed; 3—By efficient management which reflected in the quality, cost, and time results, and which compares favorably with contract work.

We take this opportunity to thank the public for the many expressions of satisfaction for the work done this year. But our highways are far from being up to the standard that is required of a town of Andover's wealth.

Because of the hilly character of Andover, highway construction and maintenance presents some difficulties more accentuated than most towns. While a road can be built almost dustless and acceptable to automobiles travel it is very dangerous for the horse, and many complaints are made. We have tried to lessen the danger by putting sand on the road, but this is only a temporary remedy unless continuous and is objected to on account of the dust. This phase of the problem is the most difficult to overcome. Observation suggests three propositions for experiment, viz: 1—Divide the roadway in two parts, one part tarvia bound macadam for automobiles, the other part gravel surfaced for horse drawn vehicles. This would conflict with the laws of the road, a serious obstacle; 2—Divide the road into trackways or wheelways and horse-ways. The objection to this is that it is only practical with one horse drawn vehicles; 3—Build a combination of tarvia bound macadam with a gravel surface and a light oil dressing. This construction consists of a one course tarvia bound macadam of sufficient depth covered with a coat of tarvia X and one to two inches of screened gravel rolled in the

tarvia and then loosen the surface with rakes and then cover with a coat of light dust oil.

Main street is a source of expense and annoyance caused by the street railway company putting sand on their rails, and which creates dust in dry weather and mud in wet weather. This is a condition that our Superintendent has protested, and hope that in the future it will bear results. Immediately after the dust has been laid with oil or tarvia the street railway company begins to put sand on their rails, in a short time conditions are as bad as ever, more complaints, and another coat of oil, and so on indefinitely.

Because of the transfer of horses and carts and other properties to the Board of Public Works there is an overcrowding of conditions for housing these properties, and which are inadequate and unsuitable. A great amount of town property is exposed to the weather and consequently wasted. A barn and shed is needed for the horses and carts, while the old barn can be used for storing property that is now unprotected.

By petition of your Board the County Commissioners have made surveys of Walnut avenue, High street north of Walnut avenue, and Elm from Pine to the Square, but a report has not been made at present writing. The County Commissioners have informed your Board that they have petitioned the State Highway Commissioners for the taking over of Lowell street as a State Highway, but at present writing results are not known.

BROOK STREET

Your Board had planned the re-construction of Brook street, but when work had begun, to clear the way, the abutters at the easterly corner of Brook and Central streets raised the question of ownership of two large trees which obstructed the plan of re-construction. Work was suspended, and your Board petitioned the Board of Selectmen to take such action as was necessary to determine ownership and give to the Town a safe and suitable "layout".

HIGHWAY CONSTRUCTION

For a detailed account of highway work see the Superintendent's report. The first object of the Board was to save all the

macadam roads as far as possible before re-construction was begun. Several miles of macadam roads were saved by blanketing them with Tarvia B and sand, and which acted as a dust layer also. The most important work of re-construction was on Main, Park, Essex, and part of Harding streets. Park street was thoroughly drained by pulling up the old culverts and laying pipes in there place and by adding four catch-basins, and a two course Tarvia bound macadam. Essex street was under-drained and a one course Tarvia bound with a pea stone coat. This method of construction was tried as an experiment for the purpose of diminishing the smoothness that is characteristic of the two course Tarvia bound macadam. On Harding street above the bridge curbing was laid on each side of the street and a one course Tarvia bound macadam built from curbing to curbing and drain pipes laid from High street to the catchbasins on Harding street. With two new catchbasins and drain pipes laid on High street near the home of George Saunders to Harding street, the possibility of a washout on Harding street is very much diminished. Main street from Porter Road to Stimson Bridge received much attention and the greater part re-constructed with a two course Tarvia bound macadam.

It must be evident to the citizens of Andover that money is an important factor in road maintenance from the character and quantity of work done this year. It will take many years with an appropriation the same as this year to bring our highways up to the condition required of a town like Andover. Therefore, we should not appropriate less money for the coming year, but, if possible, more.

A concise comparison of the work of like character accomplished in 1913, with that of 1914, will accentuate the difference in managerial efficiency of the two years. With an increased expenditure of about 58% for mere roadway work we have the following difference in results.

1914 Construction, 24612 sq. yds.; Resurfacing, 52020 sq. yds.
 1913 Construction, 9469 sq. yds.; Resurfacing, 20000 sq. yds.

1914 Increase	15143	Increase	32020
% 160.		% 160.	

1913, Drains and catchbasins, Pipe 1416 ft., Catchbasins 7—cost, \$1,928.00.

1914, Drains and catchbasins, Pipe 1416 ft., Catchbasins, 7—cost, \$1,292.24.

This difference in efficiency has been accomplished at a cost of about \$1500.00 less than last year, and which affected results in all the departments.

THE DUST LAYING PROBLEM

Because of the method of laying the dust this year there are some who question the validity of taxing for it. To disperse any doubt on this matter we will quote the law on this subject.

CHAPTER 289 OF THE ACTS AND RESOLVES OF 1909.—AN ACT RELATIVE TO THE SPRINKLING OF STREETS WITH WATER AND OTHER LIQUID AND MATERIALS

Section 1. "Any city or town may sprinkle or spread on its public ways, or parts thereof, water or any liquid or material suitable for laying or preventing dust and preserving the surface thereof, and for sanitary purpose, and all statutes providing for watering such public ways shall apply to the use of such liquid and material, including the appropriation of money, the expenditure thereof at the expense of the city or town or of the abutters, the assessment upon abutting estates, and the collecting of such assessments and proceedings thereof."

The foregoing statute is very clear on this point, and includes all that is necessary in road improvement and assessment. But our present method of taxing for dust laying is objectionable because of its inequality of assessing. Benefits are not in proportion to cost borne by the abutters. While benefits are approximately equal the tax variation exceeds five hundred per cent, according to the lineal feet of frontage. The present method of taxing three and five cents per lineal foot could be changed to a uniform tax per tenant or establish a maximum number of feet to be taxed. We are of the opinion that a change should be made to equalize the burden.

The cost of laying the dust this year was \$1950.94 against \$2267.29, in 1913, a decrease of \$316.35. The revenue was

\$1466.03, against \$1151.42 in 1913, an increase of \$314.61. This favorable showing in the decreased cost of laying the dust this year, with a greater area effected, is more apparent than real. This can be accounted for by the method employed which caused some of the expense which should come under the head of dust laying to creep into maintenance and construction, a condition that can not be avoided by the method now employed. The increase of the revenue may be accounted for by the fact that the Board made a re-survey of the lineal feet and re-assessment which probably included many that had been overlooked in the past.

SIDEWALKS

There has been a general improvement in the conditions of our sidewalks, although there has been but little permanent walks built. The re-surfacing of our concrete walks have been extensive and the substitution of cinders and crushed stone for gravel is along the lines of betterment. A beginning has been made on the Haverhill street sidewalk and continued as far as money was available. We would recommend that work be continued on Haverhill street the coming year, and that \$500.00 be allowed for the work, as much drainage is necessary to do the work effectively.

There has been some effort to create an interest in the construction of granolithic walks, but the movement does not show much force at present.

We would recommend that the sum of \$2500.00 be appropriated for sidewalks, \$500.00 for Haverhill street, \$500.00 to be used under the Abetterment Act, and the remainder for general sidewalk improvement.

PARKS AND PLAYSTEAD

For details on Parks and Playstead see the Superintendent's report. Our Parks have received but little attention along development lines, beyond the general upkeep. The Boulders were improved by the A. V. I. S. with the sanction and co-operation of your Board, in accordance with the vote of the Town at the last annual meeting at an expense of \$200.00. The bleachers was roofed and a dressing room constructed under the

seats. The walling of the Brook in the Park which was begun last year was continued to the pond this year. We would recommend that the sum of \$1500.00 be appropriated for Parks and Playstead for the coming year. The inconsistency of having a band stand without band concerts is apparent, therefore, we recommend that the sum of \$200.00 be appropriated for band concerts.

COMPARATIVE TABLE OF EXPENDITURE REVENUE
FOR 1912, 1913, AND 1914

	1912		1913		1914	
	Revenue	Expend.	Revenue	Expend.	Revenue	Expend.
†Highways and Bridges	\$4000 00	\$7136 57	\$8265 25	\$14127 85	\$25000 00	\$17113 08
Drains				2235 36		
Sale of stone	158 60					
Street Sprinkling	1198 88		1151 42	984 4	1466 03	808 64
Oil for streets				1284 85		
Railroad taxes	4155 23		4659 56		4609 78	
¶Macadam	3000 00	4753 96	2954 69	1417 82		13643 55*
Andover street	3000 00	2992 26				
Salem street	2000 00	1999 76				
Elm square	587 57	608 09				
Horses and Drivers	2295 00	2295 00	2790 55			
Salary	1200 00	1200 00	850 00			
Miscellaneous			450 00		719 49	
Sidewalks	1500 00	1649 65	2000 00	1507 04	1500 00	1648 41
Oil wagon, tools, etc.			1500 00	1409 30		221 37
Snow	1000 00	781 24	455 25	420 59	2500 00	2684 37‡
Sidewalk revenue	143 65				174 14	
Totals	\$24248 93	\$23416 53	\$25077 27	\$23385 25	\$35969 44	\$36119 74
Balances		832 40		1692 02	150 30°	

* This includes drains, catchbasins, and bridges. ‡ Spent by G. W. Wood and gives an over-draft of \$184.37 on Snow. ° Overdraft caused by Snow.

The expenditure for only roadway work in 1913 was \$20,050.32, in 1914, was \$31, 786.64, an increase of about 58%.

† This item should be changed to maintenance to comply with the accounting required by the State Laws and the accounting of the Board of Public Works. ¶ This should also be changed to Construction to comply with the laws of the State and the Books of the Board of Public Works.

THOMAS E. RHODES,
BARNETT ROGERS,
ANDREW McTERNEN,
WILLIS B. HODGKINS,
LEWIS T. HARDY.
Board of Public Works.

TO REDEEM WATER LOANS

Dr.

	No. 1 \$10,000 Matures 1920	No. 2 \$10,000 Matures 1922	No. 3 \$10,000 Matures 1923	No. 4 \$15,000 Matures 1925	No. 5 \$5,000 Matures 1928	
Balance from Jan. 1914	\$7815 53	\$5804 93	\$5136 23	\$6819 97	\$2506 97	\$28083 63
Appropriation, 1914		175 00	300 00	175 00	100 00	750 00
Int. on Investments	322 92	234 46	207 44	284 44	101 24	1150 50
	\$8138 45	\$6214 39	\$5643 67	\$7279 41	\$2708 21	\$29984 13

WATER LOANS FUNDS DEPOSITED

Cr.

	No. 1	No. 2	No. 3	No. 4	No. 5	Total
Andover Savings Bank	\$1747 33	\$1717 82	\$1813 50	\$1268 50	\$1152 96	\$ 7700 11
Broadway Savings Bank	1314 22	1490 23	1818 09			4622 54
Lowell Inst. for Savings	1007 18		300 00			1307 18
Merrimack River S'v's B'k	994 47			1324 00		2318 47
City Inst. for Savings	1008 50					1008 50
Lowell 5c Savings Bank		1842 13		1198 24		3040 37
Essex Savings Bank	1706 49					1706 49
Mechanics Savings Bank					1555 25	1555 25
Lawrence Savings Bank	360 26			1643 71		2003 97
Haverhill Savings Bank				1844 96		1844 96
Central Savings Bank		1164 21	1712 08			2876 29
	\$8138 45	\$6214 39	\$5643 67	\$7279 41	\$2708 21	\$29984 13

TO REDEEM SEWER LOANS

\$ 3,000 due 1919
\$30,000 due 1928

Dr.

Balance on hand January, 1914	\$11153 85
Town of Andover, Appropriation, 1914	1000 00
Town of Andover, Sewer Assessments, 1914	633 54
Interest on Deposits	38 58
	\$13172 97

SEWER LOANS FUNDS DEPOSITED

Cr.

Andover National Bank	\$11610 85
Salem 5c Savings Bank	1562 12
	\$13172 97

NESBIT G. GLEASON }
W. H. COLEMAN }
J. S. ROBERTSON }
Examined
Feb. 4, 1915
Auditors

THOMAS E. RHODES
LEWIS T. HARDY
ANDREW McTERNEN
BARNETT ROGERS
WILLIS B. HODGKINS

Sinking
Fund
Commissioners

SUPERINTENDENT'S REPORT

To the Board of Public Works:

GENTLEMEN: I herewith present a brief record of the work of the Water and Sewer Departments, and the general condition of the plants and equipment for the year ending December 31, 1914.

MAINS AND HYDRANTS

The system of mains has been extended during the year 1914 as follows:

Burnham Road—Connecting two dead-ends, 1785 ft. of 6-inch main, two hydrants, one 6-inch gate, at a cost of \$1381.50, or about 77½c a running foot.

Dufton Road—522 ft. of 6-inch main, one 6-inch gate, at a cost of \$381.45, or 73c a foot.

Woburn Street, Ballardvale—From Andover Street to the residence of Mr. C. E. Stickney, a distance of 2660 ft.: four hydrants, two 6-inch gates, at a cost of \$1869.80, or about 70c a foot.

Lupine Road—Connecting two dead-ends, a distance of 1340 ft., 6-inch main, one hydrant, one 6-inch gate, at a cost of \$1069.02. This job cost a little more than it should, because it was thought that if ever Lupine Road was fixed up, a cut should be made on the hill by the Cross Coal Office, therefore this pipe was put down at a depth of about 8 ft., so when this street is repaired the hill may be cut three feet without any trouble to the main, and improve things greatly.

River Street, Ballardvale—715 ft. of 6-inch main, two hydrants, one 6-inch gate. This was laid across from the river, and for the first 400 feet a pump had to be kept in action most of the time on account of water. Therefore, this job went a little high, costing \$591.67, or 83c a running foot.

Flint's Court—a distance of 542 ft. of 4-inch C. I. main, cutting in tee on Elm Street line, setting gate on 4-inch line, \$346.91.

Chandler Road—6-inch C. I. pipe a distance of 2680 ft., four hydrants, one 6-inch gate, at a cost of \$2030.30, or 76c a running foot.

This line was practically the same length on Woburn Street, only one was sandy, and this line was very gravelly, accounting for the extra cost.

These additions make the present plant on December 31, 1914, as follows:

Total length of main pipe in service	49.64 miles
Number of Hydrants	364
Number of Public Buildings	14
Number of Fountains	8
Number of Standpipes	10
Number of Faucets at Parks	4
Number of Private Hydrants	32

SERVICE PIPES

During the year there were received 56 applications for new service-pipes, and there were laid 52. The number of feet laid by the Town from the mains to street line was 1126, and by the property owners 3168, all of which has been paid for. This year there have been two discontinued and three relaid, making a total on December 31, 1914, of 627 cement-lined pipes, and 740 lead-lined; 38 of all other kinds, including solid lead, tarred, etc., making 1405 in number, or 111,294 ft. in length.

METERS

There have been set during the year 1914, 49 new meters, making a total of 1195 now in use. I would recommend meters be put where possible on all services now in use.

PUMPING PLANTS

The High Service Station has passed one more year to its record, making six years this plant has run now without one cent of expense to machinery. This plant has run on an average of about 22 hours each week since it was started Nov. 8, 1908.

Haggett's Pond Station, where all water has to be first pumped, has seen a few changes. The Oil Engine has been overhauled, a new main bearing put in, and several small repairs on the Steam Plant. But this year a thorough overhauling will be done on the Steam Plant. The engineer's house has been painted, also some repairs on the coal pocket were necessary. The expense of pumping this year was practically the same as last year, or a little less, while there was a little more water pumped.

The pond has been the lowest this year that it has been since the town started taking water, I am told by the engineer who has been there, it going this year about 30 inches below high-water mark, while usually in the summer it ranges from 15 to 18 inches, making it surely 12 inches lower this year than ever before. The edges around the pond from Campion's camp to Chase's were all cleaned up this fall and a great amount of matter collected. The pumping this year was 365 days. The Oil Engine was used 123 days; the Steam Pump 242 days. The number of hours worked by engines was 3457 hours, 19 minutes, or a daily average of 9 hours, 47 minutes. This may seem small to a great many for two engineers; but there is the starting up in the morning and the shutting down and cleaning up in the afternoon that has to be done besides this 9 hours and 47 minutes, or in other words, each man has about a day's work of some kind or other. Then there is a day off out of each week: we can, according to law, only work the engineers eight hours a day, six days a week.

Number of gallons pumped by oil, 68,806,417; number of gallons pumped by steam, 166,167,134; total, 234,973,551 gallons, or a daily average of 643,764 gallons. The new vacuum pump spoken of last year for this station has been purchased and put in operation. The rest of the machinery and buildings are in very good condition, with the looking over of the Deane Pump spoken of above.

The water rates will show a falling off this year on account of our books closing on December 31st, about ten days before they have in the past. (The Treasurer's Report will show amount of water rates due January 1st. All bills back of this quarter are paid).

GENERAL REPORT

The works are in a very good condition, and the hydrants will all be painted this spring, as well as the water fountains. The shop on Lewis Street has been painted this fall, but no money was spent on the barn as it was not thought advisable. It has to be shingled and new sills and floor put in if it is still to be used. But now that we have added more horses to the department, I hope a barn may be built large enough for both.

SEWER DEPARTMENT

This past year there have been 18 applications for sewers received, all accepted and laid, making a total of 655 house connections.

During the year both sludge beds have been dug up and the pipes cleaned out and relaid, making a great deal of difference in the working of these beds. Mr. Wright of the State Board of Health has visited us at different times this year, and he made a report to me that the beds were never in as good condition as they are at the present time. We have visited the different beds and broken the ice, and find they are working just the same as in summer. There has also been a great cleaning up of the banks from the sludge beds clear up to the settling-tank, and other places have seen a great change under the direction of your Superintendent and other new caretaker you appointed in April. But with all improvements on the beds that have been laid over and are now working so well, the State Board of Health has ordered additional beds built as quickly as possible to take care of the trouble we almost always have in the spring. This will mean that we must at once in the spring start on two additional beds. These will be built from money of our last Bond issue, as it is construction work. Most of the material for filling, and sand and gravel for the beds may be obtained within 500 feet of where the beds will be built; the only stock to be purchased or teamed any distance will be the Akron Pipe, and crushed stone for the joints. These we will have in our own department. The Sewer Department should have a little more money the coming year, and therefore I recommend that an appropriation of \$1800.00 be asked for.

FRANK L. COLE, *Supt.*

RECEIPTS

BILLS	Mainte- nance	Service Pipe	Pipe Distribu- tion	Total
Various Parties, service pipes and meters		\$1964 94		\$ 1964 94
Repairs on pipe and meters	\$204 07	\$ 92 08	\$ 10 25	306 40
Off and on	35 00			35 00
Tyer Rubber Co., supplies	24 80			24 80
Smith & Dove Co., supplies	31 46	2 80		34 26
Ballard Vale Mills, supplies	8 10	4 71		12 81
Buchan & McNally		25 56		25 56
George W. Spickler, oil	2 38			2 38
A. V. I. S., labor	6 42			6 42
Board of Health			9 90	9 90
Sale of junk			14 47	14 47
Totals	\$312 23	\$2090 09	\$34 62	\$ 2436 94
Water Rates				19614 00
Credits paid Town Treasurer				\$22050 94
Water Rates		\$19614 00		
Pipe Out		2436 94		
		\$22050 94		\$22050 94

Approved,

W. H. COLEMAN
J. S. ROBERTSON
N. G. GLEASON

} Auditors

EXPENDITURES

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT			
	Mainte- nance	Construc- tion	Total	Mainte- nance	Construc- tion	House Connec- tion	Total
Andover Coal Co., coal and coke	\$ 1113 54	\$ 6 26	\$ 1119 80				\$ 1119 80
Gulf Refining Co., oil	264 24		264 24				264 24
New Eng. Tel. & Tel.	55 93		55 93				55 93
Buchan & McNally, supplies	58 50	1 20	59 70				59 70
Boston & Maine, freight	44 56	509 28	553 84			17 90	571 74
Andover Press, supplies	59 81		59 81				59 81
John Traynor, hay	19 00		19 00				19 00
Tyer Rubber Co., tiles	10 80		10 80			1 63	12 43
W. I. Morse, supplies	68 35		68 35	10 25			207 85
Payrolls	5291 43	129 25	5420 68	622 27	401 19	348 08	10047 52
Neptune Meter Co., meters and parts	87 68	3384 55	3472 23				518 86
Lead Lined Iron Pipe Co., pipe and fittings		431 18	431 18				1144 46
Boston Pipe and Fitting Co., supplies	7 02	166 84	173 86				173 86
Muller Mfg. Co., supplies		409 43	409 43				409 43
Walworth Mfg. Co., supplies	4 56	18 69	23 25				23 25
Dr. Walker, services		15 00	15 00				15 00
Hardy & Cole, labor and material	100 94	32 00	132 94	6 16		12 25	151 35
Hersey Meter Co., parts	14 75	1 23	15 98				15 98
Morrison & O'Connell, supplies	18 00	75	18 75				18 75
Chadwick, Boston, lead		31 04	31 04				31 04
Carfares	90 03	34 82	124 85				124 85
B. V. Mills Co., overcharge		4 71	4 71				4 71
Pittsburgh Meter Co., meters and material	3 39	242 73	246 12				246 12
Fred Adams		7 50	7 50				7 50
Wright's Express	2 10	70	2 80				2 80
American Express	23 23	53	23 76				23 76
National Lead Co., lead		340 46	340 46				340 46

	4163 02	4163 00	4163 00
Standard C. I. Pipe Co., water-pipe	.	.	.
Building Iron Foundry Co.	59 71	59 72	59 72
Harold L. Bond, dynamite and caps	35 29	35 21	35 21
Ludlow Valve Co., supplies	28 60	28 69	28 69
Fred Smith, teaming	153 05	153 00	153 00
Rensselaer Valve Co., hydrants and grates	894 70	906 00	906 00
Old Colony Trust Co., bonds	75 04	75 00	75 00
National Meter Co.	21 30	45 43	45 43
Bride Grimes & Co.	4 50	12 10	12 10
Burnham Garage Co.	53 05	203 05	246 05
Smith & Manning, supplies	18 07	22 87	74 59
A. W. Chesterton, packing	29 71	44 20	44 20
W. H. Coleman & Co.	8 10	8 10	8 10
John Riley, B. V., janitorship	8 00	8 00	8 00
Curry Bros., supplies	236 19	236 19	236 19
Cross Coal Co.	8 50	8 50	8 50
James May, painting shop	55 00	55 00	55 00
Myerscough & Buchan	54 61	54 61	54 61
Frank E. Dodge, boiler work	12 41	12 41	12 41
August Meitz	473 06	473 06	473 06
H. S. Macomber, oils	308 75	308 75	308 75
Vacuum Oil Co., oils	17 33	17 33	17 33
T. F. Morrissey & Son, horsehire and straw	54 77	54 77	54 77
Anderson & Bowman, shoeing and supplies	34 15	34 15	34 15
T. A. Holt Co.	49 06	49 06	49 06
Jenney Mfg. Co., fuel oil	156 41	156 41	156 41
Frank E. Davis, fittings	387 22	387 22	387 22
Deane Steam Pump	253 61	253 61	253 61
Samuel Smith Mach. Co., labor	32 06	32 06	32 06
Joseph Bourdelais, teaming	52 20	52 20	52 20
J. H. Campion Co., grain and supplies	103 65	103 65	103 65
Robinson Hardware Co.	1 10	1 10	1 10
Chapman Valve Co.	13 88	13 88	13 88
E. B. Badger & Son, welding	6 00	6 00	6 00
Buchan & Francis, excelsior	1 00	1 00	1 00

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT			
	Mainte- nance	Construc- tion	Total	Mainte- nance	Construc- tion	House Connec- tion	Total
Smart & Flagg, insurance on bond	20 00		20 00				20 00
Benj. Brown, rubber boots	17 00		17 00	8 50			8 50
George Hussey, stamps	1 85		1 85				1 85
Treat Hardware Co.	80		80				80
George W. Winslow, telemeters	11 60		11 60				11 60
Birmingham Pen Co., pens	2 50		2 50				2 50
H. W. Johns Manville Co., asbestos	11 25		11 25				11 25
M. T. Walsh	35		35				35
Merrimac Boiler Works	36 50		36 50				36 50
A. M. Colby	1 25		1 25				1 25
Ira Buxton, supplies	6 13		6 13	9 00			9 00
Joseph Chambers, teaming coal	51 30		51 30				51 30
Dove Machine Co., labor	1 08		1 08				1 08
D. Donovan & Son, painting house	85 00		85 00				85 00
Frank L. Holt	75 00		75 00	546 00			546 00
Queen and Grey Co., telemeter sheets	25 00		25 00				25 00
Scott Shattuck, teaming	2 00		2 00				2 00
Edward Adams, supplies	8 75		8 75				8 75
Post Office, envelopes	105 60		105 60				105 60
Joseph Bousette, cleaning out pond	27 00		27 00				27 00
Thompson Meter Co.	6 04		6 04				6 04
Lawrence Gas Co., gas	2 00		2 00				2 00
Henry R. Worthington, gasket	11		11				11
George Mander				215 00			215 00
House Connection				47 97			47 97
John P. Wyllie, rubber boots				17 00		16 00	33 00
John Collins, team					58 00		58 00
Portland Stoneware Co., pipe						327 94	327 94
	\$10306 80	\$12517 11	\$22823 91	\$1509 71	\$459 19	\$790 96	\$2759 86
							\$25583 77

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1914	Total Cost of Construction
Office Fixtures				561 75
Telemeters				1311 63
Telephones				184 77
Teams				583 65
Pipe Distribution	8814 59	34 62	8779 97	245497 27
Service Pipe	3566 17	2090 09	1476 08	22198 16
Water and Land Damages				6687 23
Suction Pipe				1309 46
Reservoirs				16985 82
Coal Shed				806 97
Grading Land				1739 12
Workshop				1271 88
Building Pumping Station				9610 14
Pumping Plants				44401 83
Construction Expenses				9406 21
Tools	136 35		136 35	3091 83
Maintenance	10306 80	312 23	9994 57	
Totals	\$22823 91	\$2436 94	\$20386 97	\$365647 72

COMPARATIVE STATISTICS

January 1, 1915

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	1776 21	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 3106 38	2999 99	1806 93	52 85	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	2185 83	40 77	25 53	68 42	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2408 24	36 42	23 13	73 46	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	3354 04	38 31	28 47	71 27	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3151 33	37 32	26 87	71 81	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	2557 61	37 47	20 71	78 79	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2383 71	37 67	20 71	69 61	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2196 31	32 33	19 38	68 78	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2656 42	31 21	19 24	65 45	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	3158 50	33 07	21 25	71 78	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3430 35	45 44	19 59	51 00	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3035 47	40 59	25 63	100 01	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	2922 36	55 52	21 96	86 89	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	3004 34	44 25	20 84	81 98	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3426 98	44 03	20 87	75 60	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3054 09	45 39	17 29	76 48	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	4825 63	33 34	19 94	75 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	3750 29	39 52	19 97	79 41	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3967 72	36 96	19 55	81 16	187,750,372	1101	884	257	35.22
1909	16407 21	7499 95	4234 61	36 50	18 50	76 93	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	3584 62	39 21	17 62	91 03	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3583 45	39 58	17 48	95 99	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	4471 18	36 84	19 58	96 58	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4434 65	43 86	18 86	83 47	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80					234,973,550	1405	1195	364	49.64

*Regulations and rates changed.

SUPERINTENDENT OF HIGHWAYS AND PARKS

To the Board of Public Works:

GENTLEMEN: I herewith submit the Second Annual Report of the Highway and Park Department, for the year ending December 31, 1914.

I hardly know what to say about the Highway Department; as a matter of fact, it is a pretty hard proposition to handle for any man, as there are so many things that should be done, and one has so little to do with. I started on April 27th as Superintendent of your Board, after thinking the matter over a very short time. But I decided to accept your contract for ten months, and on the acceptance of this I made up my mind that I would work hard, and make as good a showing as I possibly could; and that has been my motive ever since starting. And I want to say here, I wish to thank all members of the Board for their kindness and help which they have shown me; also the taxpayers who have tried to assist me and help whenever they could. I found no difficulty in getting help for this Department, in fact, more than was needed reported, all being citizens of Andover and most of them having a good knowledge of what should be done; what they needed and most wanted was somebody to tell them. During the year 1914 they have done very well when one considers that with all the work done this summer there have never been over fourteen laborers on the payroll any one week. The teams I have had no trouble with this summer, all working in harmony, and trying to make things come out right; the drivers, or at least most of them, have helped wherever necessary. And still these teams did just as much as they always have done. On account of the number of miles I had to cover, having all departments to look over, the automobile you purchased for me I have driven about 5000 miles. This not only allowed me to cover the ground two or three times a day, where if I had to drive a horse I would have covered some of it only once, but it allowed me to be on the different jobs about

six working hours each day. This car was kept at the garage and has cost for the 5000 miles it has been driven, \$222.00, or about 4½¢ a mile; this includes the storage, also three new shoes. This cost is without depreciation.

On account of the large number of miles in the Highway Department, it has been and always will be, impossible for the Superintendent to do work everywhere in the same year. But I assure you I will try and attend to the worst places I see first; and of course I am always willing, and want my attention called to any place the taxpayers, or your Board have seen that possibly I may overlook. This year is my first as a Street Superintendent. I think I have learned some things, and am willing and want to learn more, so as to be a benefit to the town.

I would say that the work this summer has been on a motive of branching out; that is, make a start from a point, and work from that. My start was Main Street. Somebody may say, well, Main Street has had enough. It should have enough, because it is the most traveled street in town and the hardest to keep in repair, especially from the Square to Chapel Avenue, because it is so narrow most every vehicle travels in the same spot. From Stimson Bridge to Andover Square was also made new; this was a tarvia-bound road. Park Street was the next, and here we had drains to put in, culverts to take out and pipe new, catchbasins to build, and after these were completed we started from Whittier Street and went to the crossing on Main street with a tarvia-bound road, the cost of which will be shown in a table further on. Essex Street, from the railroad crossing to the Square was also done with a one-coat job of tarvia; a blind drain from Smith & Manning's to the brook, about 3 feet by 3 feet 6 inches, was built, which I am in hopes will keep this street dry in the future. The best test will be when the frost comes out in the spring. Harding Street from the bridge to High Street, was also treated with a one-coat job of tarvia. This one-coat job means No. 1 stone rolled and tarvia put on only once. The usual way is No. 1 stone, a coat of tarvia, then throw on No. 2, roll well, then a coat of tarvia again and cover with pea stone. This was not done on Essex or Harding Streets, because it was late and I was afraid of the slipping, where now,

when spring comes, the road will be rough enough to make a good surface, and I don't think it will be slippery with what I use.

The material which was removed from the east side of Main Street was carted, and used from Bartlet Street to the top of the hill, by the residence of Mr. Jerry Leary on Morton Street, making a great improvement on this street. This year the remaining part of Morton Street should be rebuilt, as well as a drain between Bartlet Street and Main Street.

The material which was taken from Essex Street was carted to Abbott Village on Shawsheen Road to Cuba Street, also on Central Street from School to Chestnut Street; and the material that was not fit for the top of a road was removed to Lupine Road for a bottom, which I covered with ashes, making a fill over the brook of about fifteen inches. There has also been ashes placed on Poor Street, between Main and Corbett Streets which were wet and well rolled. Ashes have been placed in several places around town, and on Hidden Road from Main Street to the barn of Daniel Donovan. These make a very good road where the travel is light. There are many other places where gravel has been placed for a number of feet also. I will give a table later on showing different streets and amount of money spent on same since April 27th. From January 1st to April 27th I find no records showing where the money was spent, only in a lump sum every month.

The road-scraping was stopped early this year on account of the dryness, it being very dusty in the outside districts. The River Road is being repaired in some of the worst places by Mr. Dodge of Hood's Farm, between the Tewkesbury line and Mr. Charles Newton's. This was intended to be all done this year, but the ground froze so early, it will now have to wait until spring.

RESURFACING

This resurfacing cost about $6\frac{1}{2}c$ per sq. yd, that covering patching, sand, labor, etc.; when resurfacing alone needs to be done $5\frac{3}{4}c$ to $6c$ is enough. This resurfacing will not require as much in the future, that is, probably in two years, after these roads have had about two applications of Tarvia B, according

to other towns where I have inquired; they can then be allowed to skip two or three years. In some cases they have gone five years without even repairs of any kind. A table will show the streets resurfaced and square yards in each street, further on. When the resurfacing is going on, if the teams would only use a side street for twenty-four hours, it would allow the Tarvia B to soak in evenly, otherwise the wheels make ruts, even taking the tarvia and sand off the street, and most always making a mess of wagons as well as the roads.

OILING AND SPRINKLING

During the summer there was spent for oil, \$1142.30; also the watering-cart, \$808.64, making \$1950.94 in all. There was received by the Tax Collector, \$1466.03, making \$484.91 more cost than was received by the Town. Now no private business concern can afford to lose that amount on such a small investment, and why should the Town. I would recommend that the price of sprinkling, oiling, or Tarvia B, as these are all used as a dust layer, be increased one cent a foot, then we could get out of this trouble whole.

PAVING

I would recommend that the Square be paved. There are 2081 square yards in the Square; 263 of this would be paid for by the Street Railway, making 1818 square yards for the Town. With this paving would be the renewal of the Musgrove Block, Public Library, Campion Block, and Water Fountain; service pipes and a new drain from corner of Elm Street to the pipe running to the brook. These pipes should be put in new, so that there would be no chance of digging up the work for years to come. This would cost, I believe, about \$6000.00, covering all, or about \$2500.00 for one side this year and \$3500.00 next year; then in two years we would have the Square all completed. I think this should be an extra appropriation, as the cost of paving is so much.

SIDEWALKS

In this line of work there has been as much done as possible with the amount of money available. There has been work done on several streets, with ashes and dust. On this work

alone I have spent about \$500.00, while on the new work of tar concrete there has been spent \$1164.93. This new work, as well as the resurfacing of many old streets, was done by contract by W. F. Duffee of Haverhill. There were 788.6 sq. yds. of new work done, and 2163 sq. yds. of resurfacing; there was also \$174.14 credit under the Betterment Act. I would recommend \$2000.00 this year for sidewalks, \$500 to be spent on the completing of the Haverhill Street sidewalk started in the fall of 1914.

SURFACE DRAINAGE

Drains and catchbasins have been laid and built on High Street, Harding Street, Maple Avenue, Park Street, Essex Street, and Haverhill Street. This coming year should see catchbasins and drains on several more streets, as this is a condition that must be looked after before a new street is started or constructed. The cost of cleaning out these catchbasins will of course increase, and this will mean less work on highways each year, because the greater the cost of maintenance the less we have for construction or new work.

DIRT OR GRAVEL ROADS

There has been a great deal of repairing done, but, I am sorry to say, when spring comes I am afraid there will be some places just as bad as before they were patched. The Ballardvale roads have seen one more year of good work, looked after by Mr. Haggerty, who has for a long time looked after this district. I shall farther on make a report of work done by Mr. Haggerty and cost of same.

GUTTERS

Cleaning and repairing gutters is a very large expense and there should be more paved gutters, or have the new roads we are constructing built with tarvia too, and including all gutters. High Street from the new catchbasin to Harding Street should have new gutters this year, as well as Walnut Avenue from where they now are clear to the top of the hill, as this is a very bad place in a storm.

EXPENDITURES FOR REPAIRS AND NEW WORK

FROM APRIL 27 TO DECEMBER 31, 1914

Argilla Road	Scraping and Gravel	\$ 77 89
Bartlet	Sidewalks, Gutters, Tarvia	47 35
Ballardvale Road	Scraping and Gravel	97 18
Beacon	Scraping, Gravel, Cleaning	54 52
Bancroft Road	Catchbasins and Covers	15 44
At Crusher	Constructing and putting roof over same	50 58
Chandler Road	Gravel	78 95
Chestnut	Sidewalks, Gutters, Tarvia	172 77
Corbett	Repairing washout	3 19
Cross	Taking out stone, burning brush	29 10
Central	Gutters, Gravel, Steam Roller	164 55
Elm	Gutters, Sidewalks, Culverts, filling holes	456 69
Essex	Gutters, Drains, Stone for Drain, new work	2099 08
Florence	Gutters, Cleaning	12 57
High	Gutters, Drains, Catchbasins, Tarvia	433 78
Haverhill	Sidewalks, scraping and filling	196 56
Harding	Curbing, Drains, Sidewalk, new work	898 29
Highland Road	Sidewalk Gutters, lowering grade	217 56
Hidden Road	Ashes, Steam Roller	106 00
Holt	Filling holes	8 76
Lowell	Catchbasin, filling holes, raking stones	68 37
Locke	Gutters, Tarvia	64 89
Lovejoy Road	Scraping	25 58
Lewis	Gutter Work	7 19
Maple Avenue	Gutters, Drain, Gravel	447 95
Morton	Gutters, Gravel, from Bartlet to hill	467 75
North Main	Including from river to Square	4047 17
Main	From Square to Porter Road, including new road, patching, and blanketing with Tarvia	2919 52
Orchard	Removing stone, filling holes	10 19
Phillips	Gutters, Filling	29 01
At Pit	Screening Gravel	123 68
Punchard Avenue	Gutters, Sidewalk, Tarvia and Sand	61 81
Porter Road	Tarvia and Sand, Gutters	558 42
Park	New Road	3992 29
Pearson	Grading, General Work	78 85
Poor	Ashes and Roller, Main to Corbett	88 86
Red Spring Road	Cleaning	19 48
River Road	Tarvia, Patching, Raking Stone	536 16
Salem	Patching, Gutters, Tarvia and Sand	394 76
Sunset Rock Road	Scraping, Culvert Work, Filling	76 99
Shawsheen Road	Abbott Village, to West Church	380 55
Summer	Sidewalks, Filling, Gutters, Culverts	108 70
School	Gutters, Filling Holes	36 40
Andover Square	Filling	7 50
Stevens	Filling	105 24
Union	Tarvia and Sand	133 29
Whittier	Gutters, Sidewalks, Filling Holes	70 37
Wildwood Road	Scraping, Cleaning, Ashes, Roller	168 37
Wolcott Avenue	Sidewalks, Scraping, Cleaning	74 13
Walnut Avenue	Sidewalks, Scraping, Cleaning	3 00

NEW WORK DONE IN 1914

				COST
Main Street	3314 sq. yds. of	Tarvia-bound	Road	2253 17
Morton	3267 " " "	Water-bound	"	514 50
North Main	7710 " " "	Tarvia-bound	"	4047 17
Park	3840 " " "	"	"	2814 14
Essex	3220 " " "	"	"	1948 01
Shawsheen Road		Water bound		139 32
Harding	878 " " "	Tarvia-bound	"	543 05
Park,	Drain, Catchbasins, Covers, etc.			475 02
Essex	Drain, Stone and Labor			127 00
High	Drain, Catchbasins, Pipe (380 ft. 10"-12")			285 68
Harding	Drain, 196 ft. 15" Pipe, and Labor			112 54
Maple Avenue	Drain, 874 ft. 12" Pipe, 1 Catchbasin			342 37
Harding	Curbing, Freight, Labor setting			285 87

RESURFACING WITH TARVIA B AND SAND

Elm Street	3090 feet	6180 sq. yds.
Main	5460 "	11700 "
Salem	2800 "	4980 "
Porter Road	4320 "	8590 "
Locke Street	550 "	1040 "
Punchard Avenue	420 "	750 "
High Street	1660 "	2950 "
Bartlet	1625 "	3360 "
Lowell Road	7920 "	7040 "
Chestnut	420 "	1070 "
Salem	570 "	1060 "
Main (new road)	2500 "	3300 "

52020 sq. yds.

HIGHWAY EXPENDITURES, 1914

Names	Main-tenance	Con-struction	Snow	Side-walks	Tools	Sprink-ling	Bridges	Street Signs	Totals
Good Roads Mch. Co.	\$ 75 00							\$ 23 00	\$ 98 00
A. M. Colby					102 27			\$ 5 00	5 00
Walter I. Morse	72 94								175 21
Alden Spear & Sons Co., oil	1142 40								1142 40
Barrett Mfg. Co. tarvia	2492 27	3967 70							6459 97
Boston & Maine, freight	197 86	1909 05		23 14					2130 05
Fire Dept., horse hire	1391 63	785 35	334 05			808 64			3319 67
Mass. Broken Stone Co.	70 08	601 95							671 67
Winchester Rock Co.	85 40	2300 44		34 49					2420 33
George W. Wood	715 36		53 84						769 20
Portland Stoneware Co.	310 80								310 80
Payrolls	5506 64	2295 34	1049 54	211 45					9062 97
Teams	1522 69	1054 52	214 77	100 38					2892 36
Hardy & Cole, work and team	453 63	62 06		30 25			10 00		555 94
Hood Farm, repairs	121 00		6 50						127 50
Anderson & Bowman	25 80	17 90							43 70
J. H. Campion, grain and oil	31 48	4 08							35 56
Buffalo Steam Roller Co.	17 85				70 35				88 20
New England Culvert Co.	90 72				25 00				115 72
Ames Plow Co.					23 75				23 75
John Joyce, dust				2 00					2 00
David Lawson				10 00					10 00
Smith & Dove, ashes	16 45			2 10					18 55
W. F. Duffee, concrete				1164 60					1164 60
Pacific Mills, ashes	123 50			70 00					193 50
Edward Hardy, snow	2 00		56 50						58 50
Alvin Jenkins, repairing	104 88		59 61						164 49
B. Frank Smith, snow			20 64						20 64
James J. Abbott, snow			22 53						22 53
Converse F. Parker, snow			8 00						8 00
Poor & Riley, supplies	4 95		6 33						11 28
Freeman Abbott, snow			71 00						71 00
Chester N. Boutwell, snow			9 54						9 54

John C. Collins						472 80	257 00	74 80	804 60
Ralph Bailey, snow								7 88	7 88
George Dumont, snow								25 25	25 25
James Dole, snow								3 24	3 24
Percy Dole, snow								10 80	10 80
George Ward, sand and snow								182 81	182 81
Joseph Brown, snow								17 78	17 78
Morrison & O'Connell, snow						33 70	14 95	32 95	81 60
Reuben Webb, snow						14 50		7 72	22 22
Stephen Boland, snow								9 00	9 00
William Boland, snow								1 00	1 00
George Disbrow, snow						10 94		26 76	37 70
Elmer Conkey, snow								56 50	56 50
Howard Conkey, snow								6 75	6 75
Jerry Golden, labor						80 40		7 68	88 08
John Henderson, snow								15 90	15 90
John Nicholas, snow								12 44	12 44
Charles Brown, snow								7 68	7 68
Almon Abbott, snow								7 68	7 68
Paul Lee, snow								65 40	65 40
C. P. Dyke, snow								6 36	6 36
Allen Abbott, snow								8 19	8 19
John H. Manning, snow								1 25	1 25
William Cooper, snow								1 25	1 25
William Matthews, snow								2 00	2 00
Charles E. Stickney, snow								7 25	7 25
Fred Symonds, snow								1 00	1 00
Fred Gould, snow								65 17	65 17
Joseph Bourdelais, snow								99 53	
Cross Coal Co.						14 11	144 18		
Burnham Garage Co.						5 50	150 00		
American Express						155 90	1 15		
James Green, horse hire						42	12 00		
Buchan & McNally, supplies						35 50	2 62		
Tyer Rubber Co.						41 90	90		
New Eng. Tel. & Tel.						15 17	10 07		
Myerscough & Buchan						17 01	38 15		
Curry Bros., supplies						126 19	4 50		
Andover Waterworks						21 13			
						7 50			

Names	Maintenance	Construction	Snow	Side-walks	Tools	Sprinkling	Bridges	Street Signs	Totals
Smith & Manning	37 59								37 59
Harry M. Eames	111 50								111 50
Merrimack Construction Co.	24 82								24 82
Benj. Brown, boots	3 50								3 50
T. F. Morrissey, horse hire	65 25								65 25
Andover Press	33 35								33 35
Daniel Fitzpatrick	7 40								7 40
John Davey, labor	4 05								4 05
Parker & Co., B. Vale	2 25								2 25
Robinson Hardware Co.	45								45
W. H. Coleman & Co.	3 35								3 35
Joseph Oldroyd	1 50								1 50
D. W. Pingree (mill work)	61 52								61 52
M. T. Stevens Sons Co.	1 05								1 05
Frank E. Dodge	117 95								117 95
Arden Farm	4 35								4 35
T. E. Rhodes	3 00								3 00
O. Benson, labor	6 00								6 00
Ira Buxton, supplies	3 25								3 25
John McCarthy, wall	200 00								200 00
Treat Hardware Co., pipe	35 00								35 00
Patrick Dowd, labor	15 00								15 00
Joseph Terry, printing	5 00								5 00
Perrin Seaman, supplies	23 13								23 13
O. F. Kress	6 00								6 00
W. J. Doherty, labor	84								84
L. D. Sherman, photo	2 50								2 50
Sirat Peterson, labor	4 00								4 00
Pike Bros., sand	33 00								33 00
M. O. Mahoney, pipe	10 12								10 12
District Police Inspector	10 00								10 00
A. Zecchini, gravel	14 60								14 60
John Clinton, gravel	42 20								42 20
Universal Road Mach. Co.	67 20								67 20
Merrimack Boiler Co., tubes	79 79								79 79
Scott Shattuck, hay	30 00								30 00
Paul Hannagan, grates	154 00								154 00
Lawrence Granite Co., curbing	232 57								232 57
Totals	17085 08	13633 55	2684 37	1648 41	221 37	808 64	10 00	28 00	36119 42

BALLARDVALE REPORT

Repaired road, including stoning and graveling, from the Kimball place on Andover Street, 180 ft. south.

Removed all stones from streets, cleaned out all catchbasins and gutters about the village.

Used road scraper and made all necessary repairs after scraping on all the following streets: From Allicon place to the Wilmington line on Woburn Street; Woburn Street down Andover Street to High Street, including High Street to the church; from residence of Thomas Stott on River Street to the Wilmington line; from Perry place to Dascomb Road; from Andover Street up Dascomb Road to the Tewksbury line; from Pillsbury corner, Osgood Street, Andover Street where needed. Repaired sidewalk on the east side of Andover Street and built a cement curbing on the same. This wall was also taken down and built new by Mr. John McCarthy, by contract. Repairs were made on Abbot Street from Old Railroad to Porter Road.

A few repairs on the Ballardvale Playstead were made for the Fourth of July celebration. One car of dust was put on late this fall, and many repairs and patchings too small to mention but which had to be attended to were also done. The amount spent for this work, including team, man, and gravel was \$1994.98 for the Ballardvale District. Not including snow.

A catchbasin and some piping will have to be put in this year to take care of the water that crosses by Joseph Scott's store. There is need of about two cars more of dust for sidewalks in Ballardvale, and I believe oil would save, and help keep the cost of maintenance down if used on these gravel roads.

RECOMMENDATIONS

A gutter on High Street from residence of George Saunders to Harding Street, across street from Miss Laura Spence's to catchbasin on Walnut Avenue.

Necessary catchbasins and paved gutters on Walnut Avenue.

Morton Street, tarvia-bound road and necessary drain, etc., from Bartlet Street to Main Street; from Main to School Streets.

Bartlet Street, from residence of B. M. Allen to Chapel Avenue, a new construction complete, drain, etc.

Elm Street, from residence of H. M. Eames to Andover Square, a tarvia-bound road.

Chestnut Street, between Main and Central Streets, tarvia-bound road.

Central Street, from Essex Street to J. J. Abbott's — or part this year and finish next — a tarvia-bound road.

That the street sprinkling assessment be increased sufficiently to cover the cost of the work.

Set curbing on all corners of streets wherever new work is constructed and a great number of other places where needed.

That the Square, or at least one-half of same, be paved this year, and a separate appropriation be asked for same.

That the Sidewalk appropriation be increased \$500 and that this amount be spent, or as much as needed, for the completion of the Haverhill Street sidewalk already started.

A shed must be built, and a barn we need, as we now have no place to store our snow plough, carts, sleds, water-wagons, and many other things. The barn should be connected with the shed, as the barn we now have is not large enough for the keeping of three horses, and furthermore the floor is all gone. We would have to spend a good deal of money for repairs if left as it is, so I would recommend that a special article be inserted in the Warrant for \$1500 for a shed and building we need on our land to care for and store what we have.

FINANCIAL STATEMENT

Appropriation, March, 1914

Highway Department	\$25000 00
Receipts from St. R. R. Franchise Tax	2560 37
Receipts from St. R. R. Excise Tax	2049 41
Receipts from Street Sprinkling	1466 03
Credits (various accounts)	723 84
Total Receipts	<hr/> \$31799 65

Expenditures as follows:

Maintenance Highway	\$17113 08	
Construction (new work)	13633 55	
Tools	221 37	
Bridges	10 00	
Sprinkling with Carts	808 64	
	<hr/>	
Total Expenditure	\$31786 64	
Balance Dec. 31, 1914	13 01	
	<hr/>	<hr/>
Total Receipts		\$31799 65
Appropriation for Sidewalks		\$1500 00
Credits		174 14
Expenditures	\$1648 41	
Balance	25 73	
	<hr/>	<hr/>
	\$1674 14	\$1674 14

SNOW

Appropriation for Snow,		\$2500 00
Expenditure,	\$2684 37	
Overdraft.		184 37
	<hr/>	<hr/>
	\$2684 37	\$2684 37
Park Department appropriation,		\$1500 00
Boulders,		200 00
Expended on Park,	\$1477 17	
Expended on Boulders,	200 00	
	<hr/>	
	\$1677 17	
Balance, December 31, 1914,	22 83	
	<hr/>	<hr/>
	\$1700 00	\$1700 00

OILING STREETS

Streets	Length	Width	Sq. Yds.	
Elm St.	1713	43	6391	
Maple Ave.	670	15	1120	
Andover Square			2000	
Car Tracks	3305	15	5510	
School St.	2535	21	5915	
Central	2903	21	6774	
Chapel Ave.	670	18	1340	
Phillips St.	223	15	372	
Highland Rd.	300	8	277	
Main St.	280	8	248	
Andover St., B. V.	580	16	1030	
Phillips Academy	1646	9	1650	Private
Town House, Barnard St.			1400	
Abbot St.	950	16-33	2650	
Phillips St., Torr's Cor.	425	24	1130	
Essex St.	1070	25	3000	
Around Depot	300-100	30-120	2340	
Chestnut St	1770	24-27	5000	
Whittier St.	425	24	1140	
Main St.	360	8	320	
Park St.	586	24	1570	
Post Office Ave.				Private
Cost of Above Oiling			\$1142 30	
Cost of Watering			808 64	
Total Cost			\$1950 94	
Receipts from Tax Collector			1466 03	
Balance Cost Town			484 91	

PARKS AND PLAYSTEADS

I would say that when taking up the position of Superintendent I found David Leslie and James Abercrombie at work, they being hired by the Board of Public Works. Work was started by these two men on April 27th, and both continued until June 13th, when Mr. Abercrombie was laid off for the rest of the summer. From that date Mr. Leslie continued until November 7th as caretaker of the Park and Playstead as well, his time being distributed between both as condition required.

The wall on both sides of the brook has been continued to the entrance of the pond. This work was done by John McCarthy, he digging down a foot below the present bed of the brook and filling in with a cement base, and on this a good wall was built.

During the summer J. E. Pitman built a roof over the grandstand on the Playstead. This was stained by C. E. Donovan. After this was built, the Superintendent had W. J. Doherty put in a small room under the stand to be used as a dressing-room. And I would like to say that since the building of this in the late summer the lock has been broken at two different times.

New seats were purchased by the Board and placed on the Park, and in the Square at the junction of Main and High Streets.

The following table will show the amount of money spent and who received same.

EXPENDITURES

Names	Park	
John McCarthy, wall	\$ 500 00	
David Leslie, labor	327 81	
James Abercrombie	75 93	
W. I. Morse, tools and seats	74 84	
D. Donovan & Son, painting	42 00	
John E. Pitman	165 00	
A. V. I. S., Boulders	200 00	
William J. Doherty, locker	30 00	
J. Harry Playdon	25 00	
Franklin Forestry Co.	24 00	
Frank L. Cole	76 92	
W. H. Coleman & Co.	25 00	
Winchester Rock Co.	20 15	
Ira Buxton	9 15	
Charles P. Rea, teaming	6 55	
T. F. Morrissey, teaming	10 94	
Charles Baker, teaming	16 41	
Anderson & Bowman	35	
Fred Adams, labor	4 00	
Hardy & Cole	1 30	
Flint Symonds, labor	16 32	
Hugh Callahan, labor	50	
Burt Wheeler, team	2 50	
John Ronan, labor	63	
George Abbott, Playstead (B. V.)	6 56	
Leon, York, Playstead (B. V.)	8 75	
Patrick Conway, Playstead (B. V.)	6 56	
	\$1677 17	
Balance	22 83	
	\$1700 00	
Appropriation		\$1700 00

Appropriation, March, 1914, for Park Department, \$1700.00, \$200.00 of which to be spent on The Boulders.

I would recommend an appropriation of \$1500.00 be asked for in 1915, \$150.00 to be spent by the A. V. I. S., under the direction of the Board of Public Works.

Respectfully submitted,

FRANK L. COLE, *Supt.*

TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1915

ANDOVER, MASS.
THE ANDOVER PRESS
1916

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TOWN OFFICERS, 1915

Selectmen, Assessors and Overseers of the Poor

HARRY M. EAMES, <i>Chairman</i>	Term expires	1917
CHARLES BOWMAN	" "	1918
WALTER S. DONALD, <i>Secretary</i>	" "	1916

Town Clerk

GEORGE A. HIGGINS

Tax Collector

JOHN W. BELL

Town Treasurer

GEORGE A. HIGGINS

School Committee

ALFRED E. STEARNS	Term expires	1917
GEORGE A. CHRISTIE	" "	1917
LILIAN BREWSTER	" "	1917
BARTLETT H. HAYES	" "	1918
HENRY A. BODWELL	" "	1918
JOHN C. ANGUS	" "	1918
THOMAS E. RHODES	" "	1916
FREDERIC G. MOORE	" "	1916
PHILIP F. RIPLEY	" "	1916

Superintendent of Schools

J. FRANCIS ALLISON

Board of Public Works and Sinking Fund Commission

THOMAS E. RHODES	Term expires	1917
WILLIS B. HODGKINS	" "	1918
ANDREW McTERNEN	" "	1918
LEWIS T. HARDY	" "	1916
BARNETT ROGERS	" "	1916

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE

Engineers of Fire Department

CHARLES S. BUCHAN, *Chief* WALTER I. MORSE, *Clerk*
ALLAN SIMPSON

Board of Health

BANCROFT T. HAYNES	Term expires	1917
FRANKLIN H. STACEY	" "	1918
CHARLES E. ABBOTT, M.D.	" "	1916

Chief of Police

FRANK M. SMITH

Constables

GEORGE W. MEARS	Term expires	1916
FRANK M. SMITH	" "	1916
WILLIAM L. FRYE	" "	1916
CHESTER H. LAWRENCE	" "	1916

Trustees of Memorial Hall Library

CHARLES C. CARPENTER	Term expires	1921
GEORGE F. SMITH	" "	1922
ALFRED E. STEARNS	" "	1916
BURTON S. FLAGG	" "	1917
E. KENDALL JENKINS	" "	1918
JOHN ALDEN	" "	1919
FREDERIC S. BOUTWELL	" "	1920

Trustees of Punchard Free School—Terms expire 1916

SAMUEL H. BOUTWELL	HARRY H. NOYES
MYRON E. GUTTERSON	HARRY M. EAMES
FRANK T. CARLTON	

Auditors

DAVID R. LAWSON

WALTER H. COLEMAN

NESBIT G. GLEASON

Trustees of Cornell Fund

JOHN C. ANGUS

Term expires 1917

ALLAN SIMPSON

" " 1916

DR. WILLIAM D. WALKER

" " 1918

Superintendent of Moth Department

JOHN H. PLAYDON

Tree Warden

JOHN H. PLAYDON

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

GEORGE W. FOSTER

JOHN F. HURLEY

PATRICK J. SCOTT

GEORGE A. HIGGINS, *Clerk*

TOWN MEETINGS

Annual Town Meeting, March 1, 1915

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the first day of March, 1915, at 6 o'clock A.M., to act on the following Articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, Pound Keeper, Fence Viewers, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children,

Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Acts of 1912, Redemption of Water Bonds and Andover Loan Bonds, Schools, School Houses, School Books and Supplies, Industrial School, Sewer Maintenance, Sewer Sinking Funds, Snow, Soldiers' Relief, Spring Grove Cemetery, Sidewalks, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will appropriate the sum of \$500 for repairs on the old schoolhouse at Ballard Vale, on recommendation of the Selectmen.

Article 5.—To see what action the town will take in regard to the removal of the Brick Pumping Station on Bancroft Road and the installation of a pumping station to take its place in a vault made for the purpose, said pumping station to be run by electricity instead of oil, and the appropriation of a sufficient sum of money for this purpose, on petition of Fred M. Temple and others.

Article 6.—To hear the report of the School Committee on High School plans, and to see if the town will vote to raise and appropriate the sum of one hundred thousand (\$100,000) dollars for the purpose of building and equipping a new high school building, and making the necessary changes in the Central Heating Plant, on petition of the School Committee.

Article 7.—To see if the town will vote to extend the sewerage system to Abbott and Marland Villages, and appropriate a sum of money therefor, on petition of Daniel Hart and others.

Article 8.—To see if the town will appropriate money for a fire alarm box to be located near the residence of John E. Hutcherson on Summer Street, on petition of John J. Cady and others.

Article 9.—To see if the town will appropriate the sum of \$1500 to erect a barn and shed for the purpose of housing the horses, carts, plows, wagons, watering carts, and other properties under the care of the Board of Public Works, on petition of the Board of Public Works.

Article 10.—To see if the town will appropriate the sum of \$200 to be spent for band concerts, on petition of the Board of Public Works.

Article 11.—To see if the town will vote to extend the water system from its present terminal at the residence of Horace E. Dyer on Rocky Hill Road, to the residence of Samuel Thomes, a distance of about 1400 feet, on petition of Samuel Thomes and others.

Article 12.—To see if the town will vote to assume the care of the Rogers Brook, so-called, from Main Street to Morton Street, and to see what sum of money the town will appropriate to pay the cost of the same, to provide adequate drainage, on petition of W. E. Lombard and others.

Article 13.—To see if the town will provide for the removal of dump and ashes, under the care of the Board of Public Works, and appropriate a sum of money therefor, on petition of the Andover Village Improvement Society.

Article 14.—To fix the pay of the firemen for the ensuing year.

Article 15.—To determine the method of collecting the taxes for the ensuing year.

Article 16.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 17.—To act upon the Report of the Town Officers.

Article 18.—To determine the amount of money to be raised by taxation the ensuing year.

Article 19.—To determine what disposition shall be made of unexpended appropriations.

Article 20.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock P.M.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least, before the time of said meeting, as directed by vote of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this thirteenth day of February, A.D. 1915.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

ANDOVER, MARCH 1, 1915

ESSEX, SS.

Pursuant to the foregoing Warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said Warrant, by posting a true and attested copy of the same on the Town House, on each school-house, and in no less than five other public places where bills and notices are usually posted, and by publication in the *Andover Townsman*. Said Warrants have been posted and published seven days.

FRANK M. SMITH
Constable

ANNUAL TOWN MEETING, MARCH 1, 1915

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Monday, the first day of March, 1915, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided, and after reading a part of the warrant it was

Voted, To dispense with the further reading of the warrant.

Voted, To take up Articles 1 and 2 together.

Voted, That the polls be closed at 2 o'clock P.M.

Took up Articles 1 and 2 and proceeded to vote for Town Officers and on the License Question by the Australian ballot system.

The ballot box was found to be empty and registered 0000. The polls opened at 6 o'clock A.M., and closed at 2 o'clock P.M., as voted. The total number of ballots cast was 1109, twenty-seven (27) of which were female ballots for School Committee only.

The result of the balloting was as follows:—

MODERATOR—One year:

Alfred L. Ripley	829
Scattering	5
Blanks	248

TOWN CLERK—One year:

George A. Higgins	878
Scattering	6
Blanks	198

TOWN TREASURER—One year:

George A. Higgins	846
Scattering	3
Blanks	233

SELECTMAN—Three years:	
William A. Allen	205
Charles Bowman	619
John H. Clinton	169
Edgar M. Earley	51
Blanks	38
ASSESSOR—Three years:	
William A. Allen	213
Charles Bowman	594
John H. Clinton	169
Edgar M. Earley	46
Blanks	60
COLLECTOR OF TAXES—One year:	
John W. Bell	851
Scattering	3
Blanks	228
SCHOOL COMMITTEE—Three years:	
John C. Angus	790
Henry A. Bodwell	780
Bartlett H. Hayes	739
Scattering	5
Blanks	1013
BOARD OF PUBLIC WORKS—One year:	
Willis B. Hodgkins	696
Andrew McTernan	756
Scattering	2
Blanks	710
BOARD OF HEALTH—Three years:	
Franklin H. Stacey	688
Scattering	6
Blanks	388
AUDITORS OF ACCOUNTS—One year:	
Walter H. Coleman	573
Nesbit G. Gleason	598

David R. Lawson	591
John S. Robertson	554
Scattering	1
Blanks	929

CONSTABLES—One year:

Thomas F. Dailey	342
Chester H. Lawrence	461
George W. Mears	592
James Oldroyd	234
Frank M. Smith	667
Scattering	3
Blanks	947

TRUSTEES OF MEMORIAL HALL LIBRARY—Seven years:

George F. Smith	784
Scattering	2
Blanks	296

TREE WARDEN—One year:

JOHN H. PLAYDON	808
Blanks	274

Shall Licenses be granted for the sale of Intoxicating
Liquors in this town?

Yes	350
No	580
Blanks	152

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF PRECINCT CLERK

Polls open at 6 A.M. Ballot Box registered 0000; whole number of ballots received 150. Ballot Box registered 1010 at close, failing to work correctly. Whole number of ballots cast, 1109, of which 1082 were male voters and 27 female. The check lists tallied with the number of votes cast. Number of regular ballots returned, 918. Number of female ballots returned, 123. Polls closed at 2 P.M.

DANIEL A. COLLINS

Precinct Clerk

The Moderator declared—

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Treasurer for one year.

Charles Bowman elected Selectman for three years.

Charles Bowman elected Assessor for three years.

John W. Bell elected Collector of Taxes for one year.

John C. Angus elected School Committee for three years.

Henry A. Bodwell elected School Committee for three years.

Bartlett H. Hayes elected School Committee for three years.

Willis B. Hodgkins elected Board of Public Works for three years.

Andrew McTernen elected Board of Public Works for three years.

Franklin H. Stacey elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

Nesbit G. Gleason elected Auditor of Accounts for one year.

David R. Lawson elected Auditor of Accounts for one year.

Chester H. Lawrence elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

George F. Smith elected Trustee of Memorial Hall Library for seven years.

John H. Playdon, elected Tree Warden for one year.

Chose Trustee of Cornell Fund—Dr. William D. Walker for three years.

Chose Fence Viewers for one year—James Saunders, George W. Mears, Raymond L. Buchan.

Chose Street Lighting Committee—Barnett Rogers, Walter H. Coleman, Colver J. Stone, Charles B. Baldwin, Henry J. Gardner.

Chose Finance Committee for one year—George Abbot, Samuel H. Bailey, Samuel H. Boutwell, Joseph L. Burns, John H. Campion, Walter M. Lamont.

Town Pound—*Voted*, That Town Barn and Barnyard be the Town Pound and that the Superintendent of the Town Farm be the keeper.

Took up Article 3.

Voted, To appropriate the following stated sums of money:

Almshouse Expenses	\$ 4200 00
Repairs on Almshouse	800 00
Relief out of Almshouse	4700 00
Aiding Mothers with Dependent Children	500 00
Board of Health	1000 00
Brush Fires	800 00
Fire Department	8000 00
New Hose	500 00
Hay Scales	125 00
Highway Department	25000 00
(Also amounts received from Street Sprinkling and Street Railway and Franchise Taxes)	
Insurance	950 00
Insurance under Workmen's Compensation Act	500 00
Interest	13000 00
Memorial Hall Library	1800 00
Memorial Day	350 00
Post 99, G. A. R.	50 00
Miscellaneous	1700 00
Parks and Playsteads	1500 00
Police	4500 00
Printing and Stationery	1250 00
Public Dump	75 00
Retirement of Veterans, Acts 1912	300 00
Redemption of Water Bonds	11000 00
Redemption of Andover Loan Act Bonds	5000 00
<hr/>	
<i>Amount carried forward</i>	\$87600 00

<i>Amount brought forward</i>	\$87600 00
Schools	
Unexpended Balance for Plans	250 00
Maintenance	40500 00
Books and Supplies	2400 00
School Houses	3600 00
Industrial School	200 00
Sewer Department	
Maintenance	1800 00
Sinking Funds	1000 00
Snow	1500 00
Soldier's Relief	900 00
Spring Grove Cemetery and Receipts from sale of lots	1000 00
State Aid	1500 00
Sidewalks (\$250 to be spent under Betterment Act but if no applications are received before September 1, it shall be at the disposal of the Board of Public Works)	2000 00
Street Lighting	6300 00
Town Officers	6500 00
Town House	2000 00
Tree Warden	250 00
Moth Department	3250 00
Water Department	
Maintenance	10000 00
Construction (no part for extension)	3000 00
Sinking Funds	750 00
Fire Alarm Box (Article 8)	225 00
New Barn and Shed (Article 9)	1500 00
Water—Rocky Hill Road (Article 11)	1500 00
 Total	 \$179525 00
Estimated County Tax	14000 00
Estimated State Tax	23000 00
	<hr/>
	\$216525 00

Took up Article 4.

Voted, at 4.10 P.M., To indefinitely postpone.

Took up Article 5.

Voted, at 4.12 P.M., To indefinitely postpone.

Took up Article 6.

Voted, at 4.19 P.M., That the report of the Committee on High School Plans be accepted and the committee be discharged.

On the motion that the town raise and appropriate the sum of one hundred thousand (\$100,000) dollars for the purpose of building and equipping a new high school building and making the necessary changes in the central heating plant, it was

Voted, at 6.19 P.M., Not to do so, the vote being Yes 199, No 153, which was not the required two-thirds.

Voted, at 6.24 P.M., That further consideration and definite action on the question of erecting a new high school building be postponed until the annual town meeting in March, 1916. That a committee be appointed by the Moderator to consider the entire question with especial reference to the disposal of the present high school building and to the construction of a new high school, that this committee consist of two members of the School Board, one member of the Board of Trustees of Punchard Free School not a member of the School Board, and two other citizens.

The Moderator appointed the following committee: From the School Committee, Henry A. Bodwell and Alfred E. Stearns; from the Trustees of Punchard Free School, Myron E. Gutterson; from the town, John N. Cole and Burton S. Flagg.

Took up Article 7.

Voted, at 6.33 P.M., To indefinitely postpone.

Took up Article 8.

Voted, at 6.35 P.M., That the sum of \$225 be appropriated for a fire alarm box to be located near the residence of John E. Hutcheson on Summer Street.

Took up Article 9.

Voted, at 6.37 P.M., That the sum of \$1500 be appropriated to erect a barn and shed for the purpose of housing the horses, carts, plows, wagons, watering-carts, and other properties under the care of the Board of Public Works.

Took up Article 10.

Voted, at 6.38 P.M., To indefinitely postpone.

Took up Article 11.

Voted, at 6.45 P.M., That the town extend the water system from its present terminal at the residence of Horace E. Dyer on Rocky Hill Road, to the residence of Samuel Thomes, a distance of about 1400 feet, and that the sum of \$1500 be appropriated therefor.

Took up Article 12.

Voted, at 6.52 P.M., To indefinitely postpone.

Took up Article 13.

Voted, at 6.53 P.M., To indefinitely postpone.

Took up Article 14.

Voted, at 6.54 P.M., That the pay of the firemen be \$75.00 per year.

Took up Article 15.

Voted, at 6.55 P.M., That the taxes be collected by the Collector, and that he receive one per cent of all moneys collected.

Took up Article 16.

Voted, at 6.56 P.M., That the Town Treasurer, with the approval of the Selectmen be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1, 1915, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 17.

Voted, at 6.57 P.M., That the Report of the Town Officers be accepted.

Took up Article 18.

Voted, at 6.58 P.M., To raise by taxation \$125,500 and also an amount sufficient to meet the State and County Taxes.

Took up Article 19.

Voted, at 6.59 P.M., That all unexpended balances be turned into the treasury.

Took up Article 20.

Voted, at 7.00 P.M., To instruct the Selectmen to petition the County Commissioners to locate the bounds on North Main Street in the Town of Andover from Shawsheen Bridge to Andover Square and to especially widen that portion of the highway, viz:—the bridge crossing the Boston & Maine tracks on said street, in accordance with the provisions contained in Chapter 463, section 23, part one, Acts of 1906.

Voted, at 7.01 P.M., That, whereas, the size of the Town Hall makes it difficult to seat the qualified voters of the town at their meetings, Resolved, That it is the sense of this meeting that admission to the floor of the hall at town meetings should be granted only to qualified voters, as determined by use of the check list.

Voted, at 7.04 P.M., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officer's return on the same, also a true copy of the doings of the meeting.

ATTEST,

GEORGE A. HIGGINS

Town Clerk

SPECIAL TOWN MEETING

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Wednesday, the thirty-first day of March, 1915, at 7.45 o'clock P.M., to act on the following Articles:

Article 1.—To see if the town will appoint a sum not to exceed \$75,000 for the purpose of paying any portion of the cost of the extension of the sewerage system in the Town of Andover, to what is known as the Abbott and Marland Village section, in accordance with plans drawn by McClintock and Woodfall, to authorize the Treasurer with the approval of the Selectmen, to borrow the same, and to assess betterments upon the estates benefited by the said extension, upon petition of Daniel Hart and others.

Article 2.—To transact any other business that may legally come before the meeting.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by vote of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this fifteenth day of March, A.D. 1915.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

ANDOVER, MARCH 31, 1915

ESSEX, SS.

Pursuant to the foregoing Warrant, I the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said Warrant, by posting a true and attested copy of the same on the Town House, on each school-house and in not less than five other public places where bills and notices are usually posted, and by publication in the Andover Townsman. Said Warrants have been posted and published seven days.

FRANK M. SMITH,

Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Wednesday, the thirty-first day of March, 1915, at 7.45 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 10.30 P.M., That that portion of a sewerage system shown on plan of McClintock and Woodfall dated June 8, 1898, on the west side of the Shawsheen River between Central and Stevens Streets be adopted as a part of the sewerage system of the Town of Andover, twenty-five (25%) per cent of the cost of the same to be borne by the town and seventy-five (75%) per cent by the owners of estates situated within the territory embraced by it and benefited thereby, in accordance with the provision of Section 11, Chapter 386, of the Acts of 1895. That the town raise and appropriate the sum of seventy-five thousand (\$75,000) dollars for the purposes specified in Article No. 1, to wit:—

Of paying any portion of the cost of the extension of the sewerage system in the Town of Andover to what is known as the Abbott Village and Marland Village sections in accordance with plans drawn by McClintock and Woodfall, and that the

Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow said sum and to issue therefor bonds or notes of the Town bearing interest at the current rate but not to exceed five per centum per annum, payable semi-annually, January 1 and July 1, said bonds or notes to be signed by the Treasurer of the Town, and countersigned by a majority of the Selectmen and Board of Public Works, and to be under the seal of the Town. They shall bear upon their face the words "Andover Sewer Loan of 1915", and the statement that they are exempt from taxation in Massachusetts. They shall be dated July 1, A.D. 1915, and shall be issued in numbered series and shall be payable in accordance with the provisions of Section 8, Chapter 386 of the Acts of 1895, so that the whole loan shall be paid in not more than thirty years from the date of the first bond or note issued or at such earlier periods as the Treasurer and Selectmen may determine. Principal and interest of said bonds shall be payable in lawful money of the United States at such bank or trust company as the Treasurer, with the approval of the Selectmen, shall elect. Said securities may be sold by said Treasurer at public or private sale or pledged at not less than their par value for money borrowed for the purposes of this act. Said bonds shall be certified by a bank or trust company to be selected by the Treasurer with the approval of the Selectmen. Yeas 251; Nays 14.

Voted, at 10.35 P.M., That by virtue of Section 10, Chapter 386 of the Acts of 1895, the Board of Public Works be and hereby is authorized to supervise the construction of said construction, to bind the Town by contract therefor, to take on behalf of the town by purchase or otherwise any lands, water rights, rights of way or easements in Andover deemed necessary for the establishment of such an extension of the sewerage system and system of sewerage disposal and for connections therewith; to assess upon the estates benefited by the said extension their proportional part of the cost of the same and similarly to establish an annual charge for the privilege of connecting with the sewerage system of the town in accordance with the provisions of Section 11, Chapter 386 of the Acts of 1895, and the provisions of all laws in that case made and provided, and to do any and all other

things reasonably necessary or expedient to accomplish the purposes of this act in conformity to the law in such case made and provided.

Took up Article 2.

Voted, at 10.38 P.M., That the sum of \$1500 be appropriated for interest, this sum to be added to the amount appropriated at the annual town meeting, March 1, 1915.

Voted, at 10.40 P.M., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officer's return on the same, also a true record of the doings of the meeting.

ATTEST:

GEORGE A. HIGGINS

Town Clerk

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 1, 1915	\$40500 00
Received from tuition	425 50
Received from miscellaneous sales	219 99
Transferred from School Houses	58 11

\$41203 60

J. Francis Allison, Superintendent	\$2038 08
Nathan C. Hamblin, teaching	1299 98
Eugene Lovely, teaching	1219 84
Mary L. Smith, teaching	809 80
Elizabeth M. Loftus, teaching	769 77
Ruth K. Whiting	619 67
James H. Morss, teaching	1170 08
Eleanor N. Irving, teaching	649 80
Bernice B. Abbott, teaching	584 84
Bernice G. Stimpson, teaching	634 85
Eliza Spaulding, teaching	634 85
Carolyn Dean, teaching	631 43
Anne M. Downes, teaching	850 06
Joanna P. Simmons, teaching	609 92
Katherine T. Hannon, teaching	609 92
Margaret S. Hoyt, teaching	609 92
Mae Chase, teaching	584 84
Frances Hobbs, teaching	584 84
Florence I. Abbott, teaching	609 92
Adele H. Duval, teaching	634 85

Amount carried forward

\$16157 26

Appropriation and Receipts

\$41203 60

<i>Amount brought forward</i>	\$16157 26
Florance M. Prevost, teaching	634 85
Jessie P. Brown, teaching	540 95
Etta M. Dodge, teaching	762 36
Helen E. Hartford, teaching	584 84
Sara G. Cummings, teaching	509 98
Lena M. Clark, teaching	609 92
Gertrude Farrington, teaching	205 30
Grace Hill, teaching	758 92
Cynthia E. Flint, teaching	609 92
Cecilia A. Derrah, teaching	601 70
Rubina S. Copeland, teaching	609 92
Carrie R. French, teaching	363 17
Helen W. Battles, teaching	709 86
Emma L. Ward, teaching	584 84
Emily F. Carleton, teaching	674 88
Mildred B. Morris, teaching	523 14
Mary Bridge, teaching	171 08
Edith H. Johnson, teaching	527 63
Ella S. Morrill, teaching	486 95
Hallie Stimpson, teaching	540 32
Pauline A. Meyer, teaching	419 79
Daisy I. Barrett, teaching	419 79
Helen J. Brown, teaching	116 83
Winfield W. Lunt, teaching	378 96
Vivian Taylor, teaching	294 84
Mrs. Grace Thomas, teaching	87 50
Mrs. C. F. Copp, teaching	10 00
Mrs. Geo. F. Ridings, teaching	18 75
Lois Spickler, teaching	7 50
Eilene Powers, teaching	207 30
Marion B. Abbott, teaching	2 50
Marion L. Abbott, teaching	17 50
Isabel Tobin, teaching	8 75
Margaret Mueller, teaching	5 00

Amount carried forward

\$29162 80

Appropriation and Receipts

\$41203 60

<i>Amount brought forward</i>	\$29162 80
Helen K. Hardy, teaching	197 40
Irene M. Seed, teaching	77 50
Marjorie Morrill, teaching	2 50
Esther McGill, teaching	5 00
Margaret G. Sharkey, teaching	12 50
Mrs. A. G. Veasey, teaching	12 50
Bessie P. Goldsmith, teaching	1 25
Mary L. Cotter, teaching	15 00
Lois J. Reed, teaching	236 85
Grace Fisher, teaching	126 32
Alice S. Coutts, teaching	56 25
Mrs. Margaret C. Kimball, teaching	115 43
Mrs. John Henderson, teaching	2 50
William B. Hazelton, teaching	197 40
Clara Putnam, teaching	80 05
Clara L. Locke, teaching	22 50
J. L. Williams, teaching	47 37
Georgianna Lovejoy, clerk	120 00
Ethel M. Eaton, clerk	278 00
Annie McIntosh, matron	222 00
Herbert L. White, janitor	1199 64
James A. Eaton, janitor	360 00
James McGhie, janitor	420 00
William McEwan, janitor	180 00
Granville K. Cutler, janitor	180 00
John Crowley, janitor	180 00
Alfred Melanson, janitor	96 00
George Spickler, janitor	96 00
Bay State St. Ry., transportation	800 00
B. & M. Railroad, transportation	657 10
Charles H. Newton, transportation	444 00
Alvah Wright, transportation	555 00
Walter I. Morse, supplies	99 12
S. K. Ames, supplies	32 24
<i>Amount carried forward</i>	\$36290 22

Appropriation and Receipts

\$41203 60

<i>Amount brought forward</i>	\$36290 22
Andrew Basso, supplies	1 83
T. A. Holt Co., supplies	67 06
J. Francis Allison, sundries	64 35
The Andover Press, printing and supplies	301 00
W. S. Holt & Son, supplies	28 97
Hardy & Cole, labor and lumber	223 24
Remington Typewriter Co., supplies	13 45
Buchan & Francis, supplies	13 11
E. E. Gray Co., supplies	5 78
T. F. Morrissey & Son, team hire	111 00
Am. Rattan & Reed Co., supplies	19 50
J. H. Playdon, plants	8 00
Valpey Bros., supplies	4 50
J. H. Campion & Co., supplies	21 25
N. E. Telephone Co.	61 58
John A. Jenkins, supplies	11 28
Wright's Express	17 30
S. T. Shattuck	75
Buchan & Francis, supplies	7 31
J. L. Hammett, supplies	52
Hiller & Co., supplies	4 20
Robert Hutcheson, supplies	1 03
Cross Coal Co., coal	1354 76
Andover Coal Co., coal	986 15
James J. Abbott, wood	26 00
Lawrence Gas Co., lighting	219 57
American Express Co.	12 94
Albert W. Lowe, supplies	1 15
Winfield W. Lunt, supplies	2 50
Benjamin Jacques, wood	8 00
C. F. Emerson, teaming	11 79
Cudahy Packing Co., supplies	4 00
Neostyle Co., supplies	15 03
James Napier, truant officer	92 24

Amount carried forward

\$39993 36

Appropriation and Receipts

\$41203 60

<i>Amount brought forward</i>	\$39993 36
Irene Seed, supplies	2 50
Bessie P. Goldsmith, supplies	3 60
West Disinfecting Co., supplies	57 00
Frank H. Hardy, agent, brushes	44 50
Ira Buxton, supplies	16 00
J. E. Whiting, cleaning clocks	8 75
W. H. Sylvester, tuning pianos	27 25
H. F. Chase, supplies	11 00
Louise R. Bailey, drinking-water	4 00
County of Essex, tuition	109 43
Leonard Saunders, police duty	2 50
W. D. Walker, school physician	190 00
Lawrence Lumber Co., lumber	2 73
T. F. Lord Polish Co., supplies	80
O. P. Chase, supplies	1 09
Charlotte A. Baker, wood	3 75
Pauline G. Meyer, supplies	84
Ruth K. Whiting, supplies	6 25
David M. May, police duty	1 50
Albert Saunders, supplies	75
Gavin H. McGhie, labor	4 00
Board Public Works, water	277 05
Edward E. Babb, supplies	11 83
Theo Muise, labor	2 00
Palmer, Parker Co., supplies	5 00
Daisy I. Barrett, carfares	1 90
G. C. Cannon, diplomas	4 00
George H. Worcester, supplies	4 00
Knox & Morse, supplies	40
Joseph Melanson, labor	5 00
Samuel R. Harris, labor	1 00
Standard Oil Co., floor dressing	26 50
Charles Barrett, labor	50
Herbert L. White, labor	10 00

Amount carried forward

\$40840 78

Appropriation and Receipts		\$41203 60
<i>Amount brought forward</i>	\$40840 78	
Pioneer Mfg. Co., supplies	3 00	
Scott Paper Co., supplies	18 00	
Underwood Typewriter Co., supplies	100 50	
Masury, Young Co., supplies	15 00	
Chandler & Barber, supplies	26 42	
Goldsmith & Clark, supplies	2 50	
Macey, Stetson & Morris Co., supplies	12 55	
Wakefield Chemical Co., supplies	5 50	
George E. Flint, 2nd, wood	9 00	
George F. Johnson & Co., supplies	10 00	
Nathan R. Bailey, wood	10 50	
R. B. Burnham, drinking-water	48 60	
Hall Paint & Hardware Co., supplies	1 25	
Royal Typewriter Co., supplies	60 00	
Standard Carbon Co., supplies	2 00	
Pyrene Co., supplies	12 60	
George Spickler, labor	2 00	
John Crowley, labor	4 00	
Poor & Riley, supplies	1 40	
Total expenditure	\$41203 60	\$41203 60

INDUSTRIAL SCHOOL

Appropriation, March 1, 1915		\$200 00
City of Lawrence	\$ 74 12	
Balance unexpended	125 88	
	\$200 00	\$200 00

SCHOOLHOUSES

Appropriation, March 1, 1915	\$3600 00
Received from sales	5 25

\$3605 25

Frank E. Dodge, repairs	\$ 155 03
P. J. Harris, repairs	13 17
Timothy Haggerty, labor	3 00
Ira Buxton, repairs	8 80
C. A. Hill & Co., repairs	59 10
Hardy & Cole, repairs	46 83
D. Donovan & Son, painting	135 10
William Knipe & Co., repairs	135 60
Buchan & McNally, repairs	172 44
Winthrop S. Boutwell, repairs	3 50
Anderson & Bowman, repairs	1 35
J. W. Richardson, repairs	224 81
Allen F. Abbott, repairs	149 23
Edwin C. Moody, repairs	6 53
James S. May, painting	436 00
Silatington Slate Co., repairs	26 23
W. H. Coleman & Co., repairs	198 17
Nettle & Co., supplies	4 00
Boston & Lawrence Bolt Co., supplies	115 00
E. W. McCabe & Co., repairs	1 20
Andrew Wilson Co., repairs	280 06
Buchan & McNally, supplies	265 26
M. T. Walsh, repairs	83 44
Wright Stafford & Son, repairs	152 00
W. F. Duffee & Co., concreting	206 35
Board Public Works, sidewalk	21 24
Arthur O'Hara, labor	1 50
Lawrence Gas Co., supplies	1 20

<i>Amount carried forward</i>	2906 14
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Appropriation and Receipts		\$3605 25
<i>Amount brought forward</i>	\$2906 14	
Transferred to Schools	58 11	
Transferred to Books and Supplies	47 35	
Balance unexpended	593 65	
	<hr/>	<hr/>
	\$3605 25	\$3605 25

HIGH SCHOOL PLANS

Appropriation, March 1, 1915—Balance from last year	\$250 52	
David L. Coutts	\$ 6 00	
F. H. Shattuck	1 25	
Andover Press	51 70	
L. D. Sherman	5 00	
Thomas James	2 00	
Frank I. Cooper	175 00	
W. H. Coleman	6 00	
	<hr/>	
Total expenditure	246 95	
Balance	3 57	
	<hr/>	<hr/>
	\$250 52	\$250 52

SCHOOL BOOKS AND SUPPLIES

Appropriation, March 1, 1915	\$2400 00
Received from sales	25 59
Transferred from School Houses	47 35

2472 94

Ginn & Co., supplies	\$ 425 28
American Book Co., supplies	273 52
Edward E. Babb & Co., supplies	608 81
J. L. Hammett & Co., supplies	232 89
Houghton & Mifflin Co., supplies	73 07
A. N. Palmer Co., supplies	24 13
D. C. Heath & Co., Supplies	99 38
Kenney Bros. & Wolkins, supplies	18 02
Allyn & Bacon, supplies	51 20
Albert W. Lowe, supplies	2 79
Educational Publishing Co., supplies	4 15
Milton Peabody Co., supplies	199 45
Little, Brown & Co., supplies	5 04
Eugene V. Lovely, supplies	2 50
Gregg Publishing Co., supplies	42 21
Silver, Burdett & Co., supplies	65 83
Adams, Cushing & Foster, supplies	16 00
The Frontier Press Co., supplies	6 85
Bausch & Tomb Optical Co., supplies	14 17
Charles E. Merrill Co., supplies	32 72
The Macmillan Co., supplies	47 58
David Farquhar, supplies	92 88
E. W. A. Rowles, supplies	9 55
Tyer Rubber Co., supplies	3 50
Wright's Express	31 15
American Express Co.	4 70
Noyes Randall Co., supplies	1 08

Amount carried forward

\$2388 45

Appropriation and Receipts		\$2472 94
<i>Amount brought forward</i>	\$2388 45	
H. F. Chase, supplies	1 00	
Holden Patent Book Cover Co., supplies	23 00	
Andover Press, supplies	17 90	
C. F. Emerson, teaming	25 40	
Manual Arts Press, supplies	2 00	
Standard Carbon Co., supplies	5 00	
Neostyle Co., supplies	5 34	
The Dictionary of Thoughts Pub. Co., supplies	4 85	
Total expenditure	<hr/> \$2472 94	<hr/> \$2472 94

MISCELLANEOUS DEPARTMENTS

TOWN OFFICERS

Appropriation, March 1, 1915		\$6500 00
Geo. A. Higgins, treasurer	\$ 600 00	
Geo. A. Higgins, town clerk and clerk of selectmen	900 00	
Walter S. Donald, selectman, assessor and overseer of the poor	600 00	
Charles Bowman, selectman, assessor and overseer of the poor	600 00	
Harry M. Eames, chairman of selectmen, assessors and overseers of the poor	700 00	
Walter H. Coleman, auditor	50 00	
Nesbit G. Gleason, auditor	50 00	
David R. Lawson, auditor	50 00	
Alfred L. Ripley, moderator	10 00	
Registrars of voters	98 00	
Daniel J. Murphy, town counsel	362 20	
Election officers, town meeting	75 00	
Election officers, Precinct 1 Primaries	67 00	
Election officers, Precinct 2 Primaries	40 00	
Election officers, Precinct 1 State election	75 00	
Election officers, Precinct 2 State election	40 00	
Timothy Mahoney, checker, special town meeting	3 00	
C. A. Hill, checker, special town meeting	3.00	
Dr. J. J. Daly, town physician	200 00	
John W. Bell, collector	1809 44	
Wm. C. Crowley, sealer of weights and measures	170 12	
Total expenditure	\$6502 76	
Overdrawn		2 76
	<hr/> \$6502 76	<hr/> \$6502 76

TREE WARDEN

Appropriation, March 1, 1915		\$500 00
Walter I. Morse, supplies	\$ 1 70	
T. F. Morrissey & Son, teams	10 50	
Ira Buxton, labor and supplies	2 90	
Bert A. Wheeler, team	2 70	
Anderson & Bowman, labor	1 40	
Follansbee Nursery, trees	24 50	
Austin S. Poland, labor	5 55	
J. Howard Baker, labor	104 21	
William Broderick, labor	120 53	
William Hatch, labor	118 99	
Jesse Hamilton, labor	2 00	
John Stewart, labor	3 66	
Ralph Baker, labor	1 50	
Total expenditure	\$400 14	
Balance unexpended	99 86	
	<hr/>	<hr/>
	\$500 00	\$500 00

MISCELLANEOUS

Appropriation, March 1, 1915		\$1700 00
New England Tel. & Tel. Co.	\$ 7 44	
Dr. John P. Torrey	1 00	
Andover National Bank, safe deposit box	5 00	
Betts Bros. & Co., services of diver	54 14	
T. F. Morrissey & Son	20 25	
William Trautmann	6 00	
James H. Green	3 50	
Buchan & Francis, repairing grappling-hooks	2 70	
Lilla D. Stott, transfers of real estate	40 60	
Poor & Riley	1 02	
W. & L. G. Gurley, sealers weights, etc.	52 12	
<i>Amount carried forward</i>	<hr/>	<hr/>
	\$193 77	

Appropriation, March 1, 1915		\$1700 00
<i>Amount brought forward</i>	\$ 193 77	
Expenses incurred in recovering bodies at Ballardvale	133 75	
E. F. Conkey, cleaning sanitary, B. Vale	5 00	
Walter H. Coleman & Co.	4 00	
Edith P. Sellars, printing jury list	1 00	
County Commissioners, laying out Brook Street	6 00	
Thomas F. Dailey	10 00	
John A. Riley, attendance on Board of Registrars	13 00	
Myerscough & Buchan	21 00	
Boston & Maine Railroad, trip tickets	34 50	
C. Madeleine Hewes, clerical work	53 60	
John Franklin, preparing plans	37 00	
American Express Co.	3 61	
Expenses incurred by Selectmen, attending hearings	10 45	
Parker & Co.	4 50	
J. H. McDonald, P. O. box rent	2 40	
Commonwealth of Massachusetts	1 50	
Mary E. Bonner, board for divers	5 00	
Walter I. Morse	.64	
Geo. A. Higgins, carfare and expenses	13 00	
A. M. Colby, auto signs for schools	30 00	
H. M. Eames, perambulating five town lines. Tewksbury, No. Andover, No. Wilmington, No. Reading, Lawrence.	20 00	
Charles F. Emerson	6 00	
Wm. H. Foster, auto hire	24 00	
John Breen, return of deaths	1 50	
M. J. Mahoney, return of deaths	3 50	
Charles Bowman, perambulating town lines. No. Andover, No. Reading, Wilmington, Lawrence, Tewksbury.	20 00	
<i>Amount carried forward</i>	<hr/> \$ 658 72	

Appropriation, March 1, 1915		\$1700 00
<i>Amount brought forward</i>	\$658 72	
Dr. C. E. Abbott, return of births	2 75	
Dr. W. D. Walker, return of births	10 25	
Dr. C. W. Scott, return of births	1 50	
E. W. Prescott, Corporation returns	80 17	
Dr. Percy J. Look, return of births	75	
Walter S. Donald, perambulating town lines. No. Andover, No. Reading, Wilmington, Lawrence, Tewksbury.	20 00	
Dr. E. D. Lane, return of births	6 75	
Dr. J. J. Daly, return of births	4 75	
Dr. E. C. Conroy, return of births	1 50	
Dr. Daniel T. Buzzell, return of births	25	
Ira B. Hill, field driver	25 00	
Everett M. Lundgren, return of deaths	19 50	
W. F. Gledhill, fish warden	10 00	
F. H. Stacey, trip ticket	23 00	
Total expenditure	\$864 89	
Transferred to Brush Fires	235 90	
Transferred to Board of Health	310 91	
Transferred to Insurance	119 81	
Total	\$1531 51	
Balance	168 49	
	\$1700 00	\$1700 00

STREET LIGHTING

Appropriation, March 1, 1915		\$6300 00
Lawrence Gas Co.	\$5961 24	
Unexpended	338 76	
	\$6300 00	\$6300 00

INSURANCE

Appropriation, March 1, 1915		\$950 00
Workmen's Compensation Act		500 00
Premiums		130 67
Transferred from Miscellaneous		119 81
Smart & Flagg	\$999 07	
Smart & Flagg, Workmen's Compensation Act	701 41	
	<hr/>	<hr/>
Total expenditure	\$1700 48	\$1700 48

FIRE DEPARTMENT

Appropriation, March 1, 1915	\$8500 00
Appropriation, Fire Alarm Boxes	225 00
Received for sale of manure	20 00
Received for earnings of horses	1056 14
	<hr/>
	\$9801 14

RUNNING EXPENSES

Charles C. Serra, chauffeur	\$ 441 00
Lester Hilton, chauffeur	996 00
Ivan S. Steadman, chauffeur	996 00
George Dick, chauffeur	541 00
John Collins, driver	780 00
John Haggerty, driver	780 00
Lawrence Gas Co., electricity and gas	79 19
Buchan & Francis, supplies	14 34
Walter I. Morse, supplies	95 35
Louis W. Bells, supplies	37 67
Payroll, Co. No. 1	789 57
Payroll, Co. No. 2	495 00
Lewis T. Hardy, chief	150 00
Walter I. Morse, engineer	75 00
Allan Simpson, engineer	75 00
H. S. Neal, janitor	100 00
	<hr/>
<i>Amount carried forward</i>	\$6445 12

Appropriations and Receipts		\$9801 14
<i>Amount brought forward</i>	\$6445 12	
Ira Buxton, engineer	100 00	
Tyer Rubber Co., blowing whistle	50 00	
Dr. A. W. Baker, horse dentist	2 00	
Crowley & Co., medicine	3 05	
F. H. Stacey, medicine	8 81	
Andrew Wilson Co., repairing roof	3 21	
Morrison & O'Connell, shoeing & repairs	50 00	
C. A. Hill & Co., supplies	28 70	
Fred Collins, labor	1 00	
John Haggerty, telephone	25 44	
James S. May, painting	4 50	
W. H. Gibson, laundry	26 96	
T. A. Holt Co., grain, etc.	68 70	
Fred Adams, labor	1 00	
S. T. Shattuck, teaming	1 00	
Dr. J. F. Winchester, veterinary services	3 00	
Walter S. Donald, hay	20 37	
F. L. Cole, coats	95 00	
John A. Collins, labor	2 00	
W. H. Coleman & Co., supplies	102 19	
Haynes & Juhlmann, grain, etc.	102 03	
E. W. Boutwell, hay	28 71	
A. W. Lowe, supplies	4 25	
T. F. Morrissey, straw, etc.	48 41	
American La France Engine Co., supplies	42 52	
Charles A. Jameson, hay	52 75	
New England Tel. & Tel. Co., use of telephone	53 52	
J. E. Whiting, cleaning clock	75	
Board of Public Works, water	49 47	
J. H. Campion & Co., grain, etc.	61 11	
Myerscough & Buchan, labor & supplies	8 95	
Poor & Riley, grain, etc.	125 07	
A. M. Colby, repairs	25 55	
B. F. Holt, hay	24 37	
<i>Amount carried forward</i>	\$7669 51	

Appropriations and Receipts,		\$9801 14
<i>Amount brought forward</i>	\$7669 51	
Exide Battery Depots Inc., battery	13 37	
Hardy & Cole, lumber and repairs	204 98	
Buchan & McNally, supplies	66 36	
Anderson & Bowman, shoeing & repairing	53 50	
P. J. Daly & Co., grain, etc.	56 10	
Smith & Manning, grain, etc.	57 93	
Wm. Knipe & Co., labor	20 24	
Tyer Rubber Co., supplies	7 98	
N. E. Petroleum Co., supplies	3 75	
Fred Adams et al, labor	4 50	
Fred H. Wentworth, 1 regulation overcoat	25 00	
Gamewell Fire Alarm & Tel. Co., supplies	36 92	
Andover Press, printing	20 15	
H. M. Eames, hay	157 48	
Andover Coal Co., coal	281 20	
Timothy Haggerty, labor	20 00	
Ira Buxton, supplies and repairs	139 95	
The Dayton Tire Co., tires	300 55	
Wright's Express	1 99	
American Express Co.	5 55	
	<hr/>	
Total running expenses	9147 01	

HOSE

Berlin Woven Hose & Rubber Co.	\$350 00	
William and Charles Beck	144 00	
	<hr/>	494 00

FIRE ALARM BOXES

Gamewell Fire Alarm & Tel. Co.	\$109 15	
Buchan & McNally, supplies	15 75	
C. A. Hill & Co., labor and supplies	23 09	
W. H. Coleman, labor and supplies	77 75	
	<hr/>	225 74

Total expenditure	\$9866 75	
Overdrawn		65 61
	<hr/>	<hr/>
	\$9866 75	\$9866 75

POLICE

Appropriation, March 1, 1915	\$4500 00
Received from Treas. Essex Co., for killing dogs	36 00

4536 00

Myerscough & Buchan, auto service	\$ 54 00
Auto List Publishing Co., auto lists	13 00
Edward S. Hardy, police duty	1 50
Walter I. Morse, supplies	8 53
Ira Buxton, supplies	70
New England Tel. & Tel. Co.	46 11
W. H. Gibson, laundry	3 12
Smith & Manning, supplies	2 00
American Express Co.	1 30
T. F. Morrissey & Son	10 25
A. M. Colby, supplies	2 00
Buchan & McNally, supplies	65
Frank L. Cole, supplies	5 75
W. H. Coleman & Co., supplies	10 88
Frank M. Smith, carfare and food furnished prisoners	52 60
George C. Dunnells, police duty	120 00
John A. Riley, police duty	4 00
C. A. Hill & Co., supplies	3 15
Leonard Saunders, police duty	90 50
Elmer H. Shattuck, police duty	2 50
Olin McCarthy, police duty	7 50
Timothy McCarthy, police duty	5 50
David M. May, police duty	26 00
Traffic Sign Co., street auto signs	11 80
Frank Carse, police duty	29 50
Edwin L. Brown, police duty	9 50
William C. Brown, police duty	5 00
Chester H. Lawrence, police duty	16 50
Andover Press, printing	7 40
M. T. Welch, police duty	71 00
School Department, typewriter	10 00
Allen F. Abbott, police duty	10 85

Amount carried forward

\$643 09

Appropriation and Receipts		\$4536 00
<i>Amount brought forward</i>	\$ 643 09	
John Nicoll, police duty	4 00	
F. H. Stacey, paper cups and R.R. tickets	26 10	
George W. Fraize	1 00	
E. F. Conkey, police duty	28 00	
Anderson & Bowman	1 50	
Stephen E. Abbott, police duty	2 00	
Dr. Percy J. Look, medical attendance	2 00	
Dr. W. D. Walker, medical attendance	2 00	
The Detective Publishing Co.	10 00	
Charles M. Newton, police duty	7 00	
James Napier, food furnished prisoners	1 55	
Wm. L. Frye, Railroad fares & expenses	28 98	
Thomas F. Dailey, police duty	72 00	
Henry W. Platt, police duty	12 00	
Ralph Bruce, police duty	60 00	
Daniel P. Webster, regular police	845 00	
William L. Frye, regular police	845 00	
James Napier, regular police	845 00	
Frank M. Smith, chief	1100 00	
Total expenditure	\$4536 22	
Overdrawn		22
	\$4536 22	\$4536 22

TOWN HOUSE

Appropriation, March 1, 1915		\$2000 00
Lawrence Gas Co., gas and electricity	\$220 63	
Salem Kill Dust Co., supplies	5 00	
T. A. Holt Co., supplies	70	
Wm. Knipe & Co., labor and repairs	75 85	
W. F. Chisholm, supplies	3 60	
Oral C. Richards Co., painting flagpole	6 00	
Hopkinson & Holden, rubber mat	7 80	
<i>Amount carried forward</i>	\$315 58	

Appropriation, March 1, 1915		\$2000 00
<i>Amount brought forward</i>	\$ 315 58	
Pools Mfg. Co., tube cleaner	5 08	
Sadie Hobbs, laundry	9 72	
Walter I. Morse, supplies	15 96	
J. E. Whiting, cleaning clocks	2 50	
Boston Regalia Co., repairing gavel	2 50	
Andover Coal Co., coal	265 96	
Andrew Wilson Co., repairs on roof	18 45	
C. A. Hill & Co., labor and supplies	20 00	
James S. May, painting	36 90	
Buchan & Francis, supplies	26 42	
J. W. Richardson, labor	4 41	
Charles Baker, wood	3 50	
Peoples Ice Co., ice	7 50	
Ira Buxton, labor and supplies	7 75	
The O. L. Story Scenic Co., supplies	11 80	
Charles P. Rea, labor	8 00	
George W. Mears, janitor	720 00	
New England Tel. & Tel. Co.	70	
Total expenditure	\$1486 73	
Balance	513 27	
	<hr/>	<hr/>
	\$2000 00	\$2000 00

PRINTING AND STATIONERY

Appropriation, March 1, 1915		\$1250 00
Hobbs & Warren, supplies	\$ 20 22	
Carter Ink Co., supplies	1 25	
Burroughs Adding Machine Co., supplies	19 94	
Birmingham Pen Co., supplies	6 50	
Andover Press, printing and supplies	766 49	
Wright & Potter Printing Co., supplies	4 50	
Review and Record Publishers, supplies	5 00	
<i>Amount carried forward,</i>	<hr/>	
	\$823 90	

Appropriation March 1, 1915		\$1250 00
<i>Amount brought forward,</i>	823 90	
Webster loose leaf	5 59	
P. B. Murphy, printing	3 75	
Tyer Rubber Co., supplies	1 75	
Loose Leaf Card Co., supplies	27 19	
Wakefield Daily Item, printing	55	
John H. McDonald, envelopes	106 48	
Auto List Pub. Co., auto lists and supplies	25 00	
	<hr/>	
Total expenditure	\$994 21	
Balance	255 79	
	<hr/>	
	\$1250 00	\$1250 00

STATE TAX

State Treasurer	\$ 84 86	
State Treasurer	23508 97	
	<hr/>	
	\$23593 83	
Charles L. Burrill, Pub. Service Corp. Tax	\$ 84 86	
Charles L. Burrill, State Tax	22132 50	
Charles L. Burrill, State Highway Tax	1376 47	
	<hr/>	
Total expenditure	\$23593 83	
	<hr/>	
	\$23593 83	\$23593 83

COUNTY TAX

Appropriation, March 1, 1915		\$15392 08
David I. Robinson, County Treas.	\$15392 08	
	<hr/>	
	\$15392 08	\$15392 08

DOG TAX

Received from David I. Robinson, County Treas.		\$655 51
F. S. Boutwell, Treasurer of Memorial Hall	\$655 51	
	<hr/>	<hr/>
	\$655 51	\$655 51

G. A. R. POST 99

Appropriation, Acts 1913, Chap. 62		\$50 00
Moses L. Farnham, Quartermaster	\$50 00	
	<hr/>	<hr/>
Total expenditure	\$50 00	\$50 00

MEMORIAL DAY

Appropriation, March 1, 1915		\$350 00
Moses L. Farnham, Quartermaster	\$350 00	
	<hr/>	<hr/>
Total expenditure	\$350 00	\$350 00

SPRING GROVE CEMETERY

Appropriation, March 1, 1915		\$1000 00
Received from sale of Lots		280 50
		<hr/>
		\$1280 50

William Ross, labor	\$ 21 38
Hardy & Cole, lumber	1 45
Horace Hale Smith, surveying and plans	115 00
Philip Allicon, labor	369 01
E. F. Conkey, team and labor	28 00
Walter Stickney, labor	202 00
Dennis Sweeney, repairs and labor	2 60
Joseph Descharnot, labor	156 00
George Dumont, labor and team	56 50
Andover Press, printing	3 00

<i>Amount carried forward</i>	<hr/>	\$ 954 94
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Appropriation and Receipts		\$1280 50
<i>Amount brought forward</i>	\$ 954 94	
Fred Aborn, labor	27 00	
J. H. Playdon, plants	12 50	
O. W. Vennard, superintendent	200 00	
Smith & Manning, fertilizer	24 00	
Walter I. Morse	30 60	
T. F. Morrissey & Son, use of horses	4 50	
George W. Foster, preparing deeds	7 50	
	<hr/>	
Total expenditure	\$1261 04	
Balance	19 46	
	<hr/>	
	\$1280 50	\$1280 50

MEMORIAL HALL LIBRARY

Appropriation, March 1, 1915		\$1800 00
F. S. Boutwell, Treas. Memorial Hall Library	\$1800 00	
	<hr/>	
Total expenditure	\$1800 00	\$1800 00

HAY SCALES

Appropriation, March 1, 1915		\$125 00
J. E. Pitman, repairs	\$ 22 83	
Ira Buxton, Town weigher	100 00	
	<hr/>	
Total expenditure	\$122 83	
Unexpended	2 17	
	<hr/>	
	\$125 00	\$125 00

NOTES GIVEN

Mar. 3, Andover National Bank, Note No. 26, due Nov. 10	\$10000 00	
Mar. 3, Andover National Bank, Note No. 27, due Nov. 16	10000 00	
Mar. 3, Andover National Bank, Note No. 28, due Nov. 19	15000 00	
Mar. 3, Andover National Bank, Note No. 29, due Nov. 23	15000 00	
Mar. 3, Andover National Bank, Note No. 30, due Nov. 26	20000 00	
Total amount borrowed	<hr/>	\$70000 00

NOTES PAID

Nov. 10, Andover National Bank, Note No. 26	\$10000 00	
Nov. 16, Andover National Bank, Note No. 27	10000 00	
Nov. 19, Andover National Bank, Note No. 28	15000 00	
Nov. 23, Andover National Bank, Note No. 29	15000 00	
Nov. 26, Andover National Bank, Note No. 30	20000 00	
Total amount notes paid	<hr/>	\$70000 00

PUBLIC DUMP

Appropriation, March 1, 1915		\$75 00
Olaf Benson, care dump	\$75 00	
Total expenditure	<hr/>	<hr/>
	\$75 00	\$75 00

INTEREST

Appropriation, March 1, 1915	\$13000 00
Feb. 11, Geo. A. Higgins, Treas., paid 13 Sewer coupons	\$ 260 00
Feb. 26, Old Colony Trust Co., 17 Water coupons	340 00
Mar. 8, Bureau of Statistics, Common- wealth of Massachusetts, Notes No. 26 to 30 inclusive	10 00
Mar. 9, Andover National Bank, Int. on Notes No. 26, 27, 28, 29, 30, at $3\frac{1}{4}\%$	1618 68
Mar. 27, Old Colony Trust Co., 26 Water coupons	520 00
Mar. 27, Old Colony Trust Co., 3 Sewer coupons	60 00
April 1, John W. Bell, 2 Sewer coupons	40 00
April 7, Geo. A. Higgins, Treas., paid 18 Water coupons, at $17\frac{1}{2}$	315 00
April 30, Old Colony Trust Co., 10 Water coupons	200 00
April 30, Old Colony Trust Co., 30 Andover Loan Act coupons	600 00
May 8, Geo. A. Higgins, Treas., paid 25 Water coupons	500 00
May 28, Geo. A. Higgins, Treas., paid 10 Water coupons	200 00
June 8, Geo. A. Higgins, Treas., paid 38 Water coupons	760 00
June 8, Geo. A. Higgins, Treas., paid 38 Water coupons, at $17\frac{1}{2}$	665 00
June 8, Geo. A. Higgins, Treas., paid 28 Sewer coupons	560 00
July 9, Geo. A. Higgins, Treas., paid 1 Water coupon	20 00
July 17, Geo. A. Higgins, Treas., paid 1 Water coupon	20 00
<i>Amount carried forward</i>	<hr/> \$6688 68

Appropriation, March 1, 1915	\$13000 00
<i>Amount brought forward</i>	\$6688 68
Aug. 9, Geo. A. Higgins, Treas., paid 1 Sewer coupon	20 00
Sept. 1, Geo. A. Higgins, Treas., paid 17 Water coupons	340 00
Sept. 24, Old Colony Trust Co., 25 Water coupons	500 00
Sept. 24, Old Colony Trust Co., 10 Sewer coupons	200 00
Oct. 16, Geo. A. Higgins, Treas., paid 17 Water coupons, 17½	297 50
Oct. 22, Old Colony Trust Co., 30 Andover Loan Act coupons	600 00
Oct. 22, Old Colony Trust Co., 9 Water coupons	180 00
Nov. 6, Geo. A. Higgins, Treas., paid 25 Water coupons	500 00
Nov. 22, Geo. A. Higgins, Treas., paid 2 Water coupons	40 00
Dec. 4, Geo. A. Higgins, Treas., paid 25 Water coupons	500 00
Dec. 4, Geo. A. Higgins, Treas., paid 36 Water coupons, at 17½	630 00
Dec. 4, Geo. A. Higgins, Treas., paid 13 Water coupons	260 00
Dec. 4, Geo. A. Higgins, Treas., paid 22 Sewer coupons	440 00
Dec. 22, Geo. A. Higgins, Treas., paid 60 Abbott Village Sewer coupons	1200 00
Dec. 30, Geo. A. Higgins, Treas., paid 8 Water coupons	160 00
Dec. 30, Geo. A. Higgins, Treas., paid 6 Sewer coupons	120 00
<i>Amount carried forward</i>	<hr/> \$12676 18

Appropriation, March 1, 1915		\$13000 00
<i>Amount brought forward</i>	\$12676 18	
Dec. 31, Geo. A. Higgins, Treas., paid		
1 Water coupon	20 00	
Total expenditure	\$12696 18	
Balance	303 82	
	<hr/>	<hr/>
	\$13000 00	\$13000 00

REDEMPTION OF BONDS

Appropriation, March 1, 1915, Water Bonds		\$11000 00
Appropriation, March 1, 1915, Andover Loan Act Bonds		5000 00
		<hr/>
		\$16000 00
Mar. 27, Old Colony Trust Co., Water Bond, No. 285	\$1000 00	
Apr. 30, Geo. A. Higgins, Treas., paid Water Bond, No. 213	1000 00	
Apr. 30, Old Colony Trust Co., Water Bond, No. 331	1000 00	
June 8, Geo. A. Higgins, Treas., paid Water Bonds, Nos. 237-247	2000 00	
Sept. 1, Geo. A. Higgins, Treas., paid Water Bond, No. 314	1000 00	
Oct. 22, Old Colony Trust Co., Andover Loan Act Bonds, Nos. 11-15	5000 00	
Nov. 6, Geo. A. Higgins, Treas., paid Water Bonds, Nos. 126 to 130 inclusive	5000 00	
Total expenditure	<hr/>	<hr/>
	\$16000 00	\$16000 00

WATER DEPARTMENT MAINTENANCE

Appropriation, March 1, 1915		\$10000 00
Mar. 20, Geo. A. Higgins, Treas., paid		
Board Public Works	\$1000 00	
Apr. 17, Geo. A. Higgins, Treas., paid		
Board Public Works	2000 00	
May 13, Geo. A. Higgins, Treas., paid		
Board Public Works	2000 00	
May 31, Geo. A. Higgins, Treas., paid		
Board Public Works	2000 00	
Oct. 11, Geo. A. Higgins, Treas., paid		
Board Public Works	1500 00	
Dec. 11, Geo. A. Higgins, Treas., paid		
Board Public Works	1500 00	
	<hr/>	<hr/>
Total expenditure	\$10000 00	\$10000 00

WATER DEPARTMENT CONSTRUCTION

Appropriation, March 1, 1915		\$3000 00
Appropriation for Extension		1500 00
Aug. 2, Geo. A. Higgins, Treas., paid		
Board Public Works	\$1000 00	
Sept. 16, Geo. A. Higgins, Treas., paid		
Board Public Works	1500 00	
Nov. 15, Geo. A. Higgins, Treas., paid		
Board Public Works	2000 00	
	<hr/>	<hr/>
Total Expenditure	\$4500 00	\$4500 00

WATER DEPARTMENT SINKING FUND

Appropriation, March 1, 1915		\$750 00
Nov. 15, Willis B. Hodgkins, Treasurer		
Sinking Fund	\$750 00	
	<hr/>	<hr/>
Total expenditure	\$750 00	\$750 00

SEWER DEPARTMENT MAINTENANCE

Appropriation, March 1, 1915		\$1800 00
Jan. 30, Geo. A. Higgins, Treas., paid		
Board Public Works	\$200 00	
Feb. 18, Geo. A. Higgins, Treas., paid		
Board Public Works	500 00	
Apr. 20, Geo. A. Higgins, Treas., paid		
Board Public Works	500 00	
Dec. 11, Geo. A. Higgins, Treas., paid		
Board Public Works	600 00	
Total expenditure	\$1800 00	\$1800 00

SEWER DEPARTMENT SINKING FUND

Appropriation, March 1, 1915		\$1000 00
Nov. 15, Willis B. Hodgkins, Treasurer		
Sinking Funds	\$1000 00	
Total expenditure	\$1000 00	\$1000 00

BOARD OF HEALTH

The work of the Board of Health for the year 1915 has been considerably increased, according to its records for the previous three years. The number of contagious diseases reported during 1914 was 66, for the past year 318. The cases were divided as follows:

Chicken Pox	40
Diphtheria	27
Measles	63
Ophthalmia	2
Typhoid Fever	2
Scarlet Fever	39
Tuberculosis	19
Mumps	5
German Measles	106
Spinal Meningitis	3
Whooping Cough	12
	318

During the past year there have been sixteen deaths caused by communicable diseases as follows:

Tuberculosis	12
Spinal Meningitis	2
Whooping Cough	1
Tetanus	1
	<hr/>
	16

German Measles, Measles and Chicken Pox occurred in epidemic form. But the number of cases reported does not show the extent to which these diseases occurred in total, for although the physicians who were called to attend cases reported them promptly, many cases had no medical attendance; and we would call the attention of all citizens to the fact that they are required by law to give personal notice to the Board of Health of all cases of contagious disease occurring in their households, even though a physician may not be summoned. A heavy penalty is incurred for neglect in conforming to this rule.

The cases of Scarlet Fever occurring in the vicinity of the Indian Ridge School were fortunately mild, but for this reason its early detection was made more difficult, and a temporary rule was adopted, that all pupils who were absent for any reason whatever should not be allowed to return to school without a physician's certificate; this rule was somewhat criticized at the time, but there is no question as to its efficiency in controlling what might have been a much more serious epidemic, and we heartily commend the school authorities for their prompt co-operation.

The cases of Diphtheria were also as a rule, of short duration, owing, we are convinced, to the efficient use of antitoxin and careful quarantine. We have had occasion to quarantine several persons who were wage-earners, and in such cases they are entitled to an amount equal to three-fourths of their pay provided it shall not amount to more than \$2.00 per day.

The occurrence of so many cases of communicable diseases indicates to your Board the urgent need of a school nurse to aid in the work of the school physician and Board of Health. The matter of "preparedness" which is at this time so much in the

public mind can find no more feasible position than in the cause of public health. The health of a community cannot be reckoned by the number of able-bodied men and women, but rather by its death-rate and the evidences of communicable diseases in its environment. The prevention of disease, and curtailment of its spread in the form of epidemics should be the province of the Board of Health, but in order to carry out its measures to the fullest capacity, several things are necessary. The education of the public to the fact that the work of the Board of Health is not obtrusive except in so far as it pertains to the vital welfare of the town as a whole, to see that certain rules which by legislative procedure have become matters of law, and the rules and regulations of the local Board, are being complied with. To this end it must have the cooperation of the town's civic, educational, religious and charitable organizations.

The advice and service of our district health officer during the year has been both helpful and inspiring, and the faithful work of the visiting nurse in her multiform duties can only be appreciated by those who know to what an extent that work has been carried out and extended. That the best development of the child, mental and physical, can only be obtained under good hygienic surroundings both at home and in the school, brings the work of the school physician, visiting nurse, and Board of Health in close contact, and with this end in view we heartily endorse the enlargement of the work as outlined in the object for which the newly-formed Public Health Association has been incorporated.

The agencies upon which your Board must rely in order to meet with the approbation of the town are therefore manifold, but the most important factors are those which aid in the bodily resistance to disease and the prevention of its spread. We desire to express our appreciation of the work of The Andover Village Improvement Society as carried on from year to year, not only for its intrinsic worth to the town, but as an incentive to the more cleanly and painstaking care of private property, which makes for public health and security. Widespread popular education and public opinion are slowly but surely moving in the same direction; "An ounce of prevention is worth

a pound of cure", and to this end we can but approve of any essential factor which has for its object a higher standard of civic and personal health.

Many nuisances which have annually given much trouble, have been during the past year, abated permanently; and with the extension of the sewer system much more can be accomplished. The sewerage question has received much attention and considerable time has been given to its consideration. With one or two exceptions, which will be remedied, all abutters on public sewers now constructed have caused their property to be connected. As soon as the Abbott Village sewer is completed, and the abutters have had suitable time to make connections therewith, we propose to have the inspector of plumbing make a return visit to each property connected to see that the use of all cesspools and vaults has been discontinued. We have recommended to the Board of Public Works the need of a sewer on Ridge Street, and at the lower end of School Street.

Milk inspection at present can only be carried out as a direct part of the work of the Board of Health, and during the coming year every dairy in town will be inspected, and conditions being favorable, a permit will be issued for the sale of milk. The examination of samples of milk has of necessity been dropped, as the only piece of apparatus owned by the town, an old model hand Babcock machine, has been condemned by the State authorities. If the town desires this work done in a suitable manner, it will necessitate the expenditure of a sum of money sufficient to secure an electric power Babcock machine with hot water attachment, analytical balances, platinum dishes for estimation of total solids, and a microscope for bacterial count.

The inspection of vinegar (required by law in Massachusetts) comes under this same heading and the State has ruled that it must be done by a qualified chemist. The present inspector has been notified that he will be recognized as such. This work can therefore be done without employing an additional chemist.

Regular meetings of the Board occur the second Monday of each month, but we are ready and willing to receive complaints at all times, and can assure a prompt investigation, provided these complaints are made in writing and properly signed.

Realizing early in the year that the services of a trained nurse would be of value we appointed Miss Emily Sprague as an agent of the Board.

Mr. Charles H. Newton was nominated by the Board as Inspector of Slaughtering and approved by the State Board of Health. The expenditures during the past year are as follows:

Appropriation, March 1, 1915	\$1000.00
Chas. H. Newton, Inspector of Cattle	\$250 00
Chas. H. Newton, Inspector of Slaughtering	196 00
Joseph Nolan, Inspector of Plumbing	128 00
William Knipe, Assistant Inspector of Plumbing	46 00
Wright's Express	35
Andover Press, advertising and printing	22 44
Dr. J. F. Winchester, inspection of con- demned meat	5 00
Dr. Chas. E. Abbott, Secretary of the Board of Health	75 00
Bancroft T. Haynes, salary	50 00
Franklin H. Stacey, salary	50 00
Franklin H. Stacey, salary Milk Inspector	75 00
John H. McDonald, Postmaster	27 56
Hobbs & Warren, milk license books	6 00
Telephone	1 10
Transportation	20
Branding outfit, Inspector of Slaughtering	2 65
Burying dead animals	2 35
Hardware	15
Total	<hr/> \$937 80

CONTAGIOUS DISEASES

Quarantine	\$ 91 11
Dr. J. J. Daly, fumigation	2 00
Dr. Chas. E. Abbott, fumigation	139 00
Dr. W. D. Walker, fumigation	11 00
<i>Amount carried forward</i>	<hr/> \$243 11

Appropriation, March 1, 1915		\$1000 00
<i>Amount brought forward</i>	\$243 11	
Bancroft T. Haynes, fumigation	28 16	
Dr. P. J. Look, fumigation	10 00	
Franklin H. Stacey, fumigators	65 50	
Wright's Express	2 62	
Telephone	1 00	
Dr. H. H. Nevers, examining diphtheria cultures	14 00	
Transportation	4 14	
Hobbs & Warren, record book	4 58	
Total	\$ 373 11	
Total general expense	937 80	
Transferred from miscellaneous		310 91
	<hr/> \$1310 91	<hr/> \$1310 91

Respectfully submitted,

FRANKLIN H. STACEY
CHAS. E. ABBOTT, M.D.
BANCROFT T. HAYNES

OVERSEERS OF THE POOR

Your Overseers of the Poor present the following report for the year ending December 31, 1915.

During the past year the changes in the Almshouse demanded by State Inspector Carey have been complied with; the windows opening to the fire escapes have been changed into the form of doors, with steps to the window-sill, so as to permit easy egress in case of fire. The fire escapes have been extended nearer to the ground. A part of one of the house wings has been shingled. The floor of the laundry in the basement was so worn that it would have to be replaced, but as the floor timbers were badly decayed, it was deemed the part of economy to put in a cement floor. A new henhouse has also been built. All these repairs could not have been completed had not our superintendent performed a great amount of labor.

The question is often asked, why these yearly appropriations for repairs? The answer is that we have a large, rambling building, an ideal when built, to meet the conditions then existing, but so constructed that it is necessary for quite an outlay each year to keep the house in the condition we know our people demand.

At the present time the inmates are mostly those who are not only advanced in years but also in a feeble condition, requiring their meals to be served in their rooms; this and the extra work that always attends sickness, make the duties of our superintendent and matron more than usually arduous, and the inmates are fortunate, and appreciate, that those in charge of the Town Farm are at all times ready and anxious to do all in their power to make them as comfortable and happy as possible.

For Almshouse expenses we would ask that the sum of \$4200 be appropriated; for repairs, the sum of \$450; to meet the requirements of Chapter 763, Acts of 1913, an act for suitably aiding mothers with dependent children, the sum of \$800.

H. M. EAMES

WALTER S. DONALD

CHARLES BOWMAN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 1, 1915	\$4200 00
Receipts from Town Farm	426 21
	<hr/> \$4626 21
S. K. Ames, supplies	\$ 45 76
Anderson & Bowman, blacksmith work	36 53
H. Bruckman, grain	134 85
Beach Soap Co., soap	16 55
R. H. Sugatt, clothing	16 50
Buchan & Francis, supplies	19 67
Buchan & McNally, supplies	36 55
Armour & Co., supplies	15 78
F. Orris Rea, supplies	65
Herbert Lewis, labor	10 20
Ira Buxton, supplies	6 55
Ralph A. Bailey, supplies	3 20
Andover Coal Co., coal	342 00
C. M. Dillon, painting and repairing wagon	13 60
Board Public Works, water	70 81
S. H. Bailey, supplies	1 00
Providence Churning Co., supplies	10 50
Alvin Jenkins, pasturing heifer	6 00
Valpey Bros., provisions	227 81
L. E. Chase, supplies	28 66
George H. Woodman, shoes	1 25
Frank L. Cole, clothing	36 77
J. H. Campion & Co., groceries	140 69
Smith & Manning, groceries	204 62
T. A. Holt Co., groceries	520 37
Robertson & Sutherland, dry goods	23 40
Reid & Hughes, dry goods	83 94
Albert W. Lowe, drugs	50 16
George C. Dunnells, fish	22 90
Robert Hutcheson, fish	48 86
	<hr/>
<i>Amount carried forward</i>	\$2176 13

Appropriation and Receipts

\$4626 21

<i>Amount brought forward</i>	\$2176 13
The Family Shoe Store, shoes	15 70
New England Produce Co., groceries	41 80
F. C. Small & Co., groceries	60 24
Lawrence Gas Co.	150 11
Frank H. Hardy, baskets	2 00
Cold Spring Brewing Co., malt	5 54
W. H. Coleman & Co., supplies	1 32
J. P. West, supplies	10 04
J. H. Playdon, plants	10 00
N. L. Harwood, supplies	48 87
J. P. Wakefield, provisions	115 78
Walter I. Morse, hardware	39 73
J. P. Wyllie & Co., shoes	1 50
Hiller & Co., supplies	2 10
Morrison & O'Connell, blacksmith work	5 00
Walter C. Boyce, supplies	20 00
George H. Pearce, labor	16 92
A. M. Colby, supplies	6 90
Standard Oil Co., supplies	2 50
Walker Holden, plants	2 40
J. E. Whiting, supplies	1 90
J. W. Barnard & Son, shoes	1 50
Charles Robinovitz, shoes and repairing	16 10
H. J. Furneaux, provisions	39 60
C. A. Stone, labor	8 60
Andover Press, printing	3 00
Albert E. Gilman, supplies	6 92
Crowley & Co., drugs	21 30
Geo. L. Averill, fertilizer and grain	51 00
F. L. Holt, labor	16 56
George Brown, shoes	11 55
Peoples Ice Co., ice	50 00
O. P. Chase, papers and supplies	15 25
Charles Thiras, supplies	4 96

Amount carried forward

\$2982 82

Appropriation and Receipts		\$4626 21
<i>Amount brought forward</i>	\$2982 82	
T. F. Morrissey & Co., straw	16 22	
A. Basso, supplies	5 33	
Dean & Gardner, supplies	75	
D. F. Chase, supplies	60 63	
Fred A. Swanton, superintendent	800 00	
Kate Sheehan, labor	15 00	
Mary Heald, labor	32 50	
Agnes Keeape, labor	161 00	
Gustavus Johnson, labor	163 46	
Julia Sullivan, labor	42 00	
Bertha Jansson, labor	55 00	
Kate Meelon, labor	10 00	
Clara Done, labor	5 00	
Mrs. Whalon, labor	30 00	
Nellie Rogers, labor	3 00	
Annie Keenan, labor	8 00	
Theresa Whalen, labor	5 00	
Margaret Karghon, labor	20 00	
Robina Mitchell, labor	45 00	
Mary E. Gillen, labor	25 00	
Isabel Sinclair, labor	105 00	
Theresa McCormicle, labor	7 50	
John L. Leasson, labor	144 00	
Total expenditure	\$4742 21	
Overdrawn		116 00
	<hr/> \$4742 21	<hr/> \$4742 21

PERSONAL PROPERTY AT ALMSHOUSE

House furniture	\$1100 00
Clothing	350 00
Farm stock	985 00
Farm tools	360 00
Farm produce	301 00
Fuel	394 20
Provisions	85 00
	<hr/>
	\$3575 20

ALMSHOUSE REPAIRS

Appropriation, March 1, 1915		\$800 00
Buchan & McNally, supplies and labor	\$ 60 10	
George D. Ward, labor	14 05	
D. M. Pingree Co., sawdust	11 46	
George H. Pearce, paper and labor	23 08	
Frank E. Dodge, cement and labor	79 37	
C. A. Hill & Co., supplies	5 60	
Hardy & Cole, lumber and labor	242 26	
Walter I. Morse, hardware	27 27	
James C. Souter & Co., supplies	24 20	
Anderson & Bowman, supplies and labor	14 10	
Harry S. Wright, supplies	4 13	
George Dufton, labor	18 00	
Pacific Mills, ashes	3 00	
James S. May, supplies and labor	33 50	
	<hr/>	
Total expenditure	\$560 12	
Balance unexpended	239 88	
	<hr/>	
	\$800 00	\$800 00

SOLDIERS' RELIEF

Appropriation, March 1, 1915		\$900 00
Amount expended	\$705 70	
Amount unexpended	194 30	
	<hr/>	
	\$900 00	\$900 00

STATE AID

Appropriation, March 1, 1915		\$1500 00
Amount expended	\$1394 00	
Amount unexpended	106 00	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 1, 1915		\$500 00
Town cases	\$443 00	
On account other cities	252 00	
	<hr/>	
Total expenditure	\$695 00	
Due Town from other cities	\$136 00	
Reimbursed by State	179 99	
	<hr/>	
	315 99	
	<hr/>	
Net expenditure	\$379 01	
Unexpended	120 99	
	<hr/>	<hr/>
	\$500 00	\$500 00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 1, 1915		\$4700 00
Paid out of almshouse	\$3903 02	
Paid other cities and towns	349 70	
Paid State	441 81	
Paid on account other cities and towns	428 96	
Paid on account State	225 98	
	<hr/>	
Total expenditure	\$5349 47	
Due Town from other cities		
and towns	\$428 96	
Due Town from State	225 98	
	<hr/>	
	654 94	
	<hr/>	
Net expenditure	\$4694 53	
Unexpended	5 47	
	<hr/>	<hr/>
	\$4700 00	\$4700 00

SUPERINTENDENT'S REPORT

Number of inmates—January 1, 1915	13
Number admitted during year	5
Number discharged	4
Number remaining—January 1, 1916	14
Number over eighty	2
Number between seventy and eighty	6
Number between sixty and seventy	3
Number between fifty and sixty	1
Number between twenty and thirty	1
Number one year old	1
Tramps fed	6

FARM CASH REPORT

Received for

Cows and service of bull	\$174 50
Milk	75 49
Pork, pigs, and service of boar	117 72
Boarding Johanna Buckley	202 00
	<hr/> \$569 71

Paid

For cows and calf	\$143 50
To Town Treasurer to balance	426 21
	<hr/> \$569 71

FRED A. SWANTON, *Superintendent*

ASSESSORS' REPORT

We herewith submit our annual report.

Number of male polls assessed		2038
Real estate	\$6038425 00	
Personal estate	2764870 00	
	<hr/>	\$8803295 00
Poll tax	\$ 4076 00	
Tax on real estate	114730 94	
Tax on personal estate	52533 14	
	<hr/>	171340 08
Rate of taxation per \$1000	\$19 00	
Number of		
Horses assessed		643
Cows assessed		927
Sheep assessed		15
Cattle other than cows assessed		300
Swine assessed		271
Fowl assessed		14875
Dwellings assessed		1543
Acres of land assessed		18304

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Assessors of Andover

FIRE DEPARTMENT

REPORT OF CHIEF ENGINEER

ANDOVER, MASS., JAN. 1, 1916

To the Board of Selectmen,

GENTLEMEN:—I herewith submit to you the report of the Board of Engineers of the Fire Department for the year ending December 31, 1915.

The working force of the Department consists of three Engineers, five permanent men, twenty-six call men, and apparatus as follows: one Combination Chemical and Hose, one Combination Pump, Chemical and Hose, one Fourth Class Fire Engine, one Two-horse Ladder Truck, one Two-horse Hose Wagon, one Two-horse Pung, one Two-horse Supply Wagon, and four horses.

During the past year we have answered 94 bell alarms and 11 still alarms. The automobiles have traveled 363 miles, laid 3,915 feet of hose, raised 270 feet of ladders, and used 1,376 gallons of chemicals.

Value of buildings and contents where fires occurred	\$773700.00
Insurance on buildings and contents	747300.00
Damage to buildings and contents	1335.84

One new Fire Alarm box has been installed on Summer Street. The alarm wires have been rehung on part of Salem Street, and the wires renewed on part of Park, Whittier and Summer Streets. There are about ten miles of wire which should be renewed this year, as some of it has been in service for about twenty-five years and is badly rusted.

We will have to replace a Fire Alarm box on Maple Avenue (Box 57), the same having been destroyed by the current from electric wires passing through it when a large tree fell on to the trolley and electric light wires on Elm Street. We are now using a borrowed box there.

Owing to the necessary changes of telephone poles on Bartlet street we will have to put new wires on the upper end of Bartlet Street, also on Chapel Avenue, part of Main Street, and Salem Street.

We have repaired the heating boiler at Ballardvale to meet the requirements of the Boiler Insurance Co., and it is now in good shape. One horse at Ballardvale having died, it will be necessary to buy another one.

SCHEDULE OF PROPERTY

Two engine houses and sheds	\$23000 00
Two motor trucks	14300 00
One fourth-class fire engine	2800 00
Three Harnesses	200 00
One ladder truck	1000 00
One Hose sled	60 00
Fire alarm system	4500 00
4,000 feet of hose	2000 00
Two hose wagons	1000 00

The increased pay voted the firemen last March will necessitate an increase in the appropriation.

I would recommend \$8700.00 for maintenance and necessary repairs, and \$500.00 for new hose.

Respectfully submitted,

CHARLES S. BUCHAN

Chief Engineer

POLICE DEPARTMENT

POLICE REPORT

To the Honorable Board of Selectmen,

GENTLEMEN: I hereby submit my report for the year ending December 31, 1915.

OFFENCES FOR WHICH ARRESTS WERE MADE

Assault	4
Evading carfare	1
Disturbance on street car	2
Neglect to provide for child	2
Vagrancy	2
Delinquency	5
Disturbance	8
Threat to do bodily harm	1
Insane	5
Intent to rape	1
Evading board bill	1
Breaking Town ordinance	1
Drunkenness	26
Larceny	15
Tramps	1
Non-support	7
Manslaughter	1
Assault and battery	4
Abuse of wife	4
Bastardy	1
Peddling without license	2
Indecent assault	1
Breaking game law	8
Violation of motor vehicle laws	37
Breaking and entering	1
Abuse of wife	3
Total	144

ARRESTS

Males	136
Females	8
	<hr/>
Whole number of arrests	144

DISPOSITION OF CASES

Appealed	5
Continued	27
Committed to State Farm	6
Committed to Danvers	4
Committed to House of Correction	8
Discharged	23
Held for Grand Jury	5
Held for out-of-town officers	6
Paid fines	32
On probation	12
On file	16
	<hr/>
Total	144

MISCELLANEOUS

Paid fines in lower court	\$459 00
Paid fines in Superior Court	300 00
Burglaries reported	12
Dead bodies cared for	4
Doors found open and secured	41
Dogs killed	33
Value of property stolen	\$2115 00
Value of property recovered	1512 00
Value of Police equipment	300 00

SUPERIOR COURT FINDINGS

Two and one-half years sentence	1
One year and three months sentence	2
On probation	2
Fined in Superior Court	2

In conclusion I wish to thank the Board of Selectmen for their help and loyal support of the Police Department; also, the Police Officers for the many courtesies shown me and the strict attention to the many duties they are called upon to perform.

I would at this time recommend an appropriation large enough to allow for one more officer.

Respectfully submitted,

FRANK M. SMITH

Chief of Police

SCHEDULE OF TOWN PROPERTY

Town House, fixtures and furniture	\$32000 00	
Engine house, storehouse and barn	16000 00	
25723 ft. land	20000 00	
	<hr/>	\$68000 00
Memorial Hall	25000 00	
22318 ft. land	10000 00	
	<hr/>	35000 00
Engine house, Ballardvale	3000 00	
New shed	200 00	
1-3 acre land	250 00	
	<hr/>	3450 00
Almshouse	12000 00	
Barn and other buildings	1500 00	
31 1-2 acres land	5000 00	
	<hr/>	18500 00
Punchard schoolhouse	28000 00	
4 acres land	8000 00	
	<hr/>	36000 00
Heating plant and		
John Dove schoolhouse	42000 00	
Stowe schoolhouse	24000 00	
3 3-4 acres of land	6000 00	
	<hr/>	72000 00
Bradlee schoolhouse, Ballardvale	14500 00	
1 acre land	500 00	
	<hr/>	15000 00
Richardson schoolhouse	5000 00	
1-2 acre land	400 00	
	<hr/>	5400 00
	<hr/>	
<i>Amount carried forward</i>		\$253350 00

<i>Amount brought forward</i>		\$253350 00
Indian Ridge schoolhouse	\$ 9600 00	
1 acre land	800 00	
	<hr/>	10400 00
West Centre schoolhouse	3500 00	
1-2 acre land	150 00	
	<hr/>	3650 00
North District schoolhouse	3500 00	
1-2 acre land	50 00	
	<hr/>	3550 00
Abbott District schoolhouse	100 00	
1-2 acre land	25 00	
	<hr/>	125 00
Bailey District schoolhouse	1800 00	
1-2 acre land	50 00	
	<hr/>	1850 00
Osgood District schoolhouse	800 00	
1-2 acre land	50 00	
	<hr/>	850 00
Old schoolhouse, Ballardvale	2500 00	
1-4 acre land	500 00	
	<hr/>	3000 00
9 acres, Indian Ridge (Gravel Pit)		4000 00
41 1-2 acres, Carmel Woods Reservation		3600 00
173,751 sq. ft. land, Central Park, (Richardson Field)		10000 00
6 1-2 acres Playstead		2000 00
Bandstand		1000 00
Andover Board Public Works—		
Pipelines and fountains	248000 00	
Pumping-station and buildings	42500 00	
Coal shed	700 00	
3 acres land	800 00	
20 acres Boston Ice Co. land	2500 00	
2 reservoirs	16000 00	
	<hr/>	
<i>Amount carried forward</i>	\$ 310500 00	\$297375 00

<i>Amount brought forward</i>	\$ 310500 00	\$297375 00
4 1-2 acres land	2350 00	
Machinery and tools	500 00	
Stone-breaker and engine	2000 00	
Steam road roller	1000 00	
2 sleds	75 00	
1 auto	430 00	
3 horses	600 00	
Carts and harnesses	200 00	
Sewer system	176000 00	
Workshop, Lewis Street	1000 00	
Barn and shed, Lewis Street	3000 00	
47467 ft. land, Lewis Street	3000 00	
	<hr/>	500655 00
		<hr/>
		798030 00
Punchard School Fund		76454 28
Memorial Hall, Permanent Fund	\$45000 00	
Memorial Hall Library, John Cornell Fund	7700 00	
Memorial Hall Library, John Byers Fund	10000 00	
Memorial Hall Library, Edward Taylor Fund	500 00	
Memorial Hall Library, Isaac E. Gid- dings Fund	3000 00	
Memorial Hall Library, and furniture	10000 00	
Memorial Hall Library, Woman's Chris- tian Temperance Union	100 00	
Memorial Hall Library, Phillips Fund	3200 00	
	<hr/>	79500 00
Personal property at Town Farm		3575 20
Motor Combination Chemical Truck		5300 00
Motor Combination Pump and Truck		9000 00
One Steam Fire Engine and apparatus		2800 00
Hook and Ladder Truck		1000 00
		<hr/>
<i>Amount carried forward</i>		\$975659 48

<i>Amount brought forward</i>		\$ 975659 48
Two hose wagons		1000 00
Hose sled		60 00
Four horses		1000 00
Hay scales		350 00
Safes in Town House		800 00
41 1-2 acres land, Spring Grove Cem'y	7500 00	
Receiving-tomb and toolhouse	1500 00	
	<hr/>	9000 00
Weights and measures		350 00
Fire Alarm apparatus		4500 00
4000 ft. hose		2000 00
		<hr/>
		\$994719 48

TREE WARDEN'S REPORT

During the past year fifty shade trees have been planted in various parts of the town. Dead trees have been removed when needed, and 150 trees have been trimmed and cemented in the residential part of the town. Considerable trouble has been experienced with electric wires, and we are having all the wires looked over and doing necessary trimming, which we hope will give good results, and we would ask that the sum of five hundred (\$500) dollars be appropriated for this department.

J. H. PLAYDON

Tree Warden

REPORT OF MOTHS SUPERINTENDENT

In submitting my report on this department I am pleased to note that the Browntail Moth has greatly decreased during the past year, and I am firmly convinced that spraying is the most convenient way of handling these pests. There is considerable San Jose Scale around town on the fruit trees, and I would advise people owning these trees to have them examined and if the scale is found, spray with lime sulphur before the foliage starts, at the rate of 5 pounds of the solution to 50 gallons of water. Considerable roadside cutting has been done, and all the roadsides in West Andover have been trimmed out and some in the south part of the town. I would ask that the sum of three thousand (\$3000) dollars be appropriated for this department.

J. H. PLAYDON

Local Superintendent

SUPPRESSION OF BROWNTAIL AND GYPSY MOTHS

Appropriation, March 1, 1915	\$2750 00
Private work	2154 46
Received from State Highway Department	61 35
	<hr/> \$4965 81
Fred Brundrett, labor	\$256 21
Harry Hayward, labor	152 28
William Broderick, labor	414 83
M. O'Connor, labor	164 11
Frank Mealey, labor	146 92
John Stewart, labor	401 46
William Hatch, labor	379 24
Edward Berry, labor	290 11
J. Howard Baker, labor	291 69
Pat Tucker, labor	103 06
John Shevlin, labor	6 75
Richard Stack, labor	173 80
Benjamin B. Tuttle, labor	6 00
M. Golden, labor	9 60
Harry Greenwood, labor	52 50
Jesse Hamilton, labor	179 51
J. Wallace, labor	19 10
F. Foster, labor	2 00
F. McGhie, labor	32 88
J. McGhie, labor	20 00
N. E. Mears, labor	38 63
Frank Connelly, labor	8 15
J. Mears, labor	8 00
Joe Maroney, labor	17 75
Martin Doherty, labor	24 00
M. Shea, labor	9 60
J. H. Playdon, labor	222 00
J. H. Playdon, use of horse	62 00
Albert W. Lowe, supplies	85
Ira Buxton, repairs and supplies	15 17
	<hr/>
<i>Amount carried forward</i>	\$3508 20

Appropriation and Receipts		\$4965 81
<i>Amount brought forward</i>	\$3508 20	
S. T. Shattuck, teaming and storage	138 68	
Anderson & Bowman, repairs	4 75	
American Express Co.	1 52	
Treat Hardware Co., supplies	6 00	
Martin Doherty, storing sprayer	24 00	
Hardy & Cole, supplies	2 50	
T. F. Morrissey & Son, teams	76 00	
Freeman Abbott, hauling sprayer	230 00	
Walter I. Morse, supplies	27 07	
Grasseli Chemical Co., lead	25 85	
Morrison & O'Connell, repairs	50	
W. H. Coleman & Co., supplies and repairs	41 67	
Buchan & McNally, supplies	5 17	
Comm. of Mass. Forestry Dept., tools and supplies	567 83	
	<hr/>	
Total expenditure	\$4659 74	
Balance	306 07	
	<hr/>	
	\$4965 81	\$4965 81

RETIREMENT OF VETERANS

Appropriation, March 1, 1915		\$300 00
James Saunders	\$300 00	
Total expenditure	\$300 00	\$300 00

BRUSH FIRES

Appropriation, March 1, 1915		\$800 00
Transferred from Miscellaneous		235 90
Chas. A. Hill et al	\$543 50	
H. E. Wilcox, et al	54 25	
Joseph H. Dumont	10 00	
G. M. Carter, et al	39 75	
C. W. Flanders	2 55	
G. P. Anderson	6 50	
H. S. Neal, et al	126 50	
Norman Myatt, et al	9 00	
A. P. Wright, et al	11 00	
Charles L. Bailey	4 00	
W. H. Coleman & Co., chemicals, etc.	82 45	
Walter I. Morse, supplies	37 40	
Lester N. Towne	3 00	
S. T. Shattuck, team	1 50	
Leon O. Dyer, labor	3 00	
H. M. Gilman, et al	67 00	
Peter Myatt, et al	3 00	
T. F. Morrissey, team	1 50	
Peter Conroy	2 00	
George D. Ward, et al	25 50	
Elmer Shattuck	2 50	
Total expenditure	\$1035 90	\$1035 90

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen,

GENTLEMEN: I hereby submit my report for the year beginning November 15, 1914, and ending November 15, 1915.

Number of cattle inspected	476
Number of cow-stables inspected	42
Number of swine inspected	110
Number of cattle condemned because affected with tuberculosis	53
Number of interstate cattle held for test, and identified and released	158
Number of cases of rabies	1
Number of stables condemned and disinfected	36

I wish to say that owing to the breaking out of the foot and mouth disease in the early part of February, 1915, inspection of cattle and stables was ordered discontinued.

Respectfully submitted,

CHARLES H. NEWTON,

Inspector of Animals

SPRING GROVE CEMETERY

During the past year your committee authorized the Superintendent to prepare two plots of land in the cemetery for burial purposes. One of these plots is situated near the northwest corner of the cemetery between the tomb and the tool-house, the other at the southwest corner of the cemetery. This land has been plotted, staked and loamed, making available about sixty lots for sale. This takes up nearly all the available land on the west side of the Old Railroad bed. Before taking up work on the east side of the Old Railroad bed, it was deemed advisable by the committee to procure a comprehensive plan of the entire cemetery; the services of Horace Hale Smith, C. E., were obtained and such a plan has been completed, showing in detail the layout of the entire cemetery. This plan is on file with the Selectmen for reference at any time. About two acres of land have been cleared of brush and in the near future considerable work will have to be done on the east side of the cemetery in line with its development for burial purposes. Each year adds to the area requiring labor and care on the part of the Superintendent and his assistants. The cemetery has at its present development about two miles of driveway and walks which require constant attention during the summer months to keep them in creditable condition. This together with the care of the vacant plots, shrubbery and trees calls for a larger outlay of money each season. For the coming year, your committee ask for the usual appropriation of \$1000 and proceeds from the sale of lots.

JOHN L. SMITH
GEORGE W. FOSTER
FELIX G. HAYNES
OLIVER W. VENNARD
GEORGE D. MILLETT
JOHN W. BELL
DANIEL H. POOR

Cemetery Trustees

ANDOVER, FEB., 1916.

REPORT OF SUPERINTENDENT

Lots sold as per last report	436
Lots sold this year	8
	<hr/>
Total number of lots sold	444
Total number of single graves sold	158
Interments as per last report	1168
Interments this year	48
	<hr/>
Total number of interments	1216

Respectfully submitted

O. W. VENNARD, *Supt.*

CORNELL FUND

RECEIVED

Amount of Fund		\$5000 00
Deposited in Savings Banks		5000 00
Balance from last year	\$ 25 37	
Dividends	271 20	
	<hr/>	296 57

PAID

Expended for coal and wood	\$237 10	
Balance on hand	59 47	
	<hr/>	\$296 57

JOHN C. ANGUS
ALLAN SIMPSON
W. D. WALKER

Trustees

REPORT OF TAX COLLECTOR

To the Board of Assessors:—

I herewith hand you my report as Collector of Taxes for the year ending December 31, 1915.

1910

Amount as per warrant		\$ 308 67
Additional to warrant		2 34
Interest		23 42
Collected taxes	\$115 23	
Collected interest	23 42	
Abated	195 78	
	<hr/>	<hr/>
	\$334 43	\$334 43
	<hr/>	<hr/>

1911

Amount as per warrant		\$662 47
Additional to warrant		47 20
Moth work		2 88
Interest		68 35
Collected taxes	312 69	
Collected moth work	2 88	
Collected interest	68 35	
Abated	396 98	
	<hr/>	<hr/>
	\$780 90	\$780 90
	<hr/>	<hr/>

1912

Amount as per warrant		\$3317 37
Additional to warrant		29 23
Interest		456 51
Moth work		65 81
Street sprinkling		15 69
Collected taxes	2674 65	
Collected interest	456 51	
Collected moth work	65 81	
Collected street sprinkling	15 69	
Abated	671 95	
		<hr/>
	\$3884 61	\$3884 61
		<hr/>

1913

Amount as per warrant		\$8117 62
Additional to warrant		130 10
Interest		700 41
Moth work		202 92
Street sprinkling		48 56
Collected taxes	\$6845 80	
Collected interest	700 41	
Collected moth work	202 92	
Collected street sprinkling	48 56	
Abated	486 64	
Uncollected	915 28	
		<hr/>
	\$9199 61	\$9199 61
		<hr/>

1914

Amount as per warrant		\$27069 93
Additional to warrant		756 24
Interest		600 69
Moth work		432 90
Street sprinkling		161 50
		<hr/>
<i>Amount carried forward</i>		\$29021 26

<i>Amount brought forward</i>		\$29021 26
Collected taxes	\$18382 28	
Collected interest	600 69	
Collected moth work	432 90	
Collected street sprinkling	161 50	
Abated	436 40	
Uncollected	9007 49	
	<hr/>	
	\$29021 26	\$29021 26
	<hr/>	

1915

Amount as per warrant		\$171340 08
Additional to warrant		2130 49
Bay State St. R.R. Excise tax		2001 60
Moth work		1449 95
Street sprinkling		1227 99
Interest		91 84
Collected taxes	\$145996 89	
Collected Bay State St. R. R. Excise tax		2001 60
Collected moth work	1449 95	
Collected street sprinkling	1227 99	
Collected interest	91 84	
Abated	457 53	
Uncollected	27016 15	
	<hr/>	
	\$178241 95	\$178241 95
	<hr/>	

SUMMARY COLLECTOR'S CASH ACCOUNT

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	Taxes	Excise Tax	Moth Work	Street Sprinkling	Interest	Total
1910	\$ 115 23				\$ 23 42	\$ 138 65
1911	312 69		2 88		68 35	383 92
1912	2674 65		65 81	15 69	456 51	3212 66
1913	6845 80		202 92	48 56	700 41	7797 69
1914	18382 28		432 90	161 50	600 69	19577 37
1915	145996 89	2001 60	1449 95	1227 99	91 84	150768 27
	<hr/>					
	\$174327 54	\$2001 60	\$2154 46	\$1453 74	\$1941 22	\$181878 56

JOHN W. BELL
Collector of Taxes

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (8000 due 1916)	\$120000 00
Water Bonds, 3½% (3000 due 1916)	53000 00
Sewer Bonds, 4% (5000 due 1916)	100000 00
And'r Loan Bonds, 4% (5000 due 1916)	25000 00
	<hr/> \$298000 00

Assets

Cash, General Fund	\$21774 28
Cash, Water Department	1543 21
Cash, Sewer Department	15410 33
	<hr/> \$38727 82
Uncollected Taxes	\$36938 92
Street Sprinkling	307 23
Moth Work	533 57
	<hr/> \$37779 72
Commonwealth, State Aid	\$ 1394 00
Commonwealth, Pauper Account	225 98
Cities and Towns, Pauper Account	428 96
Cities and Towns, Mothers' Aid	136 00
Sewer Assessments	430 25
Unpaid Water Rates of January 1	5833 60
Sinking Funds	47145 57
	<hr/> \$55594 36
Balance against Town	165898 10
	<hr/> \$298000 00

GEORGE A. HIGGINS, Treas., in

DR.

Balance, January 1, 1915	\$ 8927 48
Commonwealth, Corporation Tax	22633 97
Commonwealth, Bank Tax	5296 08
Commonwealth, State Aid	1322 00
Commonwealth, St. Railway Tax	2021 75
Commonwealth, School Tuition	260 50
Commonwealth, Industrial School	23 75
Commonwealth, Burial of Soldiers	50 00
Commonwealth, Temporary Aid	5 63
Commonwealth, Mothers' Aid	179 99
Commonwealth, Highway Com., Moth Work	61 35
Commonwealth, Highway Com., Lowell Street	2000 00
County of Essex, Lowell Street	2000 00
County of Essex, Dog Tax	655 51
County of Essex, Killing Dogs	36 00
Andover National Bank, Notes	70000 00
John W. Bell, Collector, Taxes	174327 54
John W. Bell, Collector, Interest on Taxes	1941 22
John W. Bell, Collector, St. Ry. Excise Tax	2001 60
John W. Bell, Collector, Street Sprinkling	1453 74
John W. Bell, Collector, Moth Work	2154 46
John W. Bell, Collector, Interest on Deposits	119 04
Water Rates	22451 01
C. J. Stone, Trial Justice, Fees	23 00
Wm. M. Rogers, Trial Justice, Fees	5 00
Newton P. Frye, Trial Justice, Fees	15 00
Almshouse, F. A. Swanton, Supt.	426 21
Spring Grove Cemetery, O. W. Vennard, Supt.	280 50
Town Hall Rents	339 00
School Department, Tuition and Supplies	415 83
Cities and Towns, Pauper Account	289 45
Hay Scales	80 40
G. A. Higgins, Town Clerk, Fees	124 00
Andover Nat'l Bank, Interest on Deposits	640 92

Amount carried forward

\$322561 93

account with the Town of Andover

CR.

Orders paid

Schools	\$ 41203 60
School Houses	2906 14
Books and Supplies	2472 94
Lawrence Industrial School	74 12
High School Plans	246 95
Highways and Bridges	36169 50
Sidewalks	2410 59
Snow	1112 21
Parks	1279 23
New Barn	1476 28
Street Lighting	5961 24
Police	4536 22
Fire Department	9866 75
Brush Fires	1035 90
Printing and Stationery	994 21
Insurance	1700 48
Miscellaneous	864 89
Town House	1486 73
Town Officers	6502 76
Spring Grove Cemetery	1261 04
Board of Health	1310 91
Moth Work	4659 74
Tree Warden	400 14
Public Dump	75 00
Hay Scales	122 83
Interest on Notes and Bonds	12696 18
Redemption 11 Water Bonds	11000 00
Redemption 5 Andover Loan Act Bonds	5000 00
Maintenance, Water Department	10000 00
Construction, Water Department	4500 00
Maintenance, Sewer Department	1800 00
Sewer Sinking Funds	1000 00
Water Sinking Funds	750 00

Amount carried forward

\$176876 58

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$322561 93
Smart & Flagg, Agts., Insurance Dividends	130 67
Ballard Vale Stores, Rent	166 67
F. H. Stacey, Milk Licenses	9 00
W. C. Crowley, Sealer's Fees	45 12
Sidewalk Assessments	466 67
Board of Public Works, Highway Department, Labor and Supplies	1333 83
Board of Public Works, Use of Horses	1052 39
Hawkers' Licenses	78 00
Liquor Licenses	3 00
Fireworks Licenses	1 00
Est. J. W. Barnard, Moth Supplies and Labor	6 75
Fire Department, sale of Manure and use of Cart	23 75
Board of Health, slaughtering Licenses	4 00
	<hr/>
	\$325882 78

account with the Town of Andover

CR.

<i>Amount brought forward</i>	\$176876 58
Memorial Day	350 00
Special G. A. R. Appropriation	50 00
Memorial Hall Library	1800 00
Memorial Hall Library, Dog Tax	655 51
Almshouse Expenses	4742 21
Almshouse Repairs	560 12
Relief Out of Almshouse	5349 47
Soldiers' Relief	705 70
State Aid	1394 00
Mothers' Aid	695 00
Retirement of Veterans	300 00
Commonwealth, State Tax	22132 50
Commonwealth, Bank Tax	1644 00
Commonwealth, State Highway	1376 47
Commonwealth, Corporation Tax	84 86
County Tax	15392 08
Andover National Bank, Notes	70000 00
	<hr/>
Total expenditure	\$304108 50
Balance on hand, January 1, 1916	21774 28
	<hr/>
	\$325882 78

Water Department

DR.

Balance, January 1, 1915	\$ 1814 67	
Maintenance	10000 00	
Construction	4500 00	
Service Pipe	4376 79	
Andover Nat'l Bank, Int. on Deposits	9 81	
	<hr/>	\$20701 27

CR.

Orders paid	\$19158 06	
Balance on hand, January 1, 1916	1543 21	
	<hr/>	\$20701 27

Sewer Department

DR.

Maintenance	\$ 1800 00	
House Connections	2594 51	
Sewer Assessments	332 08	
Sewer Assessments Interest	76 55	
Bonds	7000 00	
Bonds Premium	21 00	
Bonds Interest	70 00	
Bonds	60000 00	
Bonds Premium	456 00	
Bonds Interest	173 33	
Andover Nat'l Bank, Int. on Deposits	347 19	
	<hr/>	\$ 72870 66

CR.

Orders paid	\$57036 65	
W. B. Hodgkins, Treas. Sinking Fund	408 63	
House Connections, Refund	15 05	
Balance on hand, January 1, 1916	15410 33	
	<hr/>	\$ 72870 66

Richardson Fund—Frye Village School

DR.

Balance, January 1, 1915	\$1165 38	
Andover Savings Bank, Interest	44 14	
	<hr/>	\$1209 52

CR.

W. A. Allen	\$ 82 00	
B. A. Wheeler	4 00	
Deposit, Andover Savings Bank, Jan. 1, 1916	1123 52	
	<hr/>	\$1209 52

Draper Fund

DR.

Balance, January, 1915	\$1085 93	
Andover Savings Bank, Interest	43 84	
	<hr/>	\$1129 77

CR.

Geo. D. Millett	\$ 6 10	
Emily F. Carleton	1 00	
Deposit, Andover Savings Bank, Jan. 1, 1916	1122 67	
	<hr/>	\$1129 77

Edward Taylor Fund

DR.

Balance, January, 1915	\$ 220 47	
Andover Savings Bank, Interest	8 88	
	<hr/>	\$ 229 35

CR.

Deposit, Andover Savings Bank, Jan. 1, 1916	229 35	
	<hr/>	\$ 229 35

Varnum Lincoln Spelling Fund

DR.

Balance, January, 1915	\$ 521 00	
Andover Savings Bank, Interest	20 24	
	<hr/>	\$ 541 24

CR.

J. F. Allison, Supt. of Schools	\$ 20 00	
Deposit, Andover Savings Bank, Jan. 1, 1916	521 24	
	<hr/>	\$ 541 24

Isaac E. Giddings Burial Ground Fund

DR.

Balance, January, 1915	\$1000 00	
Andover Savings Bank, Interest	40 40	
	<hr/>	\$1040 40

CR.

F. L. Brigham, Treas., South Cemetery	\$ 40 40	
Deposit, Andover Savings Bank, Jan. 1, 1916	1000 00	
	<hr/>	\$1040 40

Cemetery Funds

DR.

Balance, January, 1915	\$14852 10	
Interest, Andover Savings Bank	609 30	
Deposits for Perpetual Care	875 00	
Andover National Bank Stock	200 00	
Andover National Bank Dividends	12 00	
Cash	48 00	
	<hr/>	\$16596 40

CR.

Paid for Care of Lots	\$ 592 00	
Deposits, Andover Savings Bank	15752 40	
Andover National Bank Stock	200 00	
Cash	52 00	
	<hr/>	\$16596 40

AUDITORS' CERTIFICATE

We have examined the accounts of the several Town Officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in the Andover National Bank and cash on hand, \$21,774.28.

Also, to the credit of the Water Department, \$1,543.21; Sewer, \$15,410.33.

NESBIT G. GLEASON
WALTER H. COLEMAN
DAVID R. LAWSON

Auditors

RECOMMENDATIONS OF FINANCE COMMITTEE

The following is a list of appropriations recommended by the Finance Committee for 1916.

Almshouse Expenses	\$ 4200 00
Repairs on Almshouse	450 00
Relief out of Almshouse	4300 00
Aiding Mothers with Dependent Children	500 00
Board of Health	2000 00
Brush Fires	800 00
Fire Department, running expenses and new hose	9200 00
Hay Scales	125 00
Highway Department, Sidewalks, Snow	28000 00
Also Street Railway Tax and Street Sprinkling (amounting last year to \$5477.09)	
Insurance	950 00
Insurance under Workmen's Compensation Act	1600 00
Interest	13000 00
Memorial Hall Library	1800 00
Memorial Day	350 00
Post 99, G. A. R.	100 00
Miscellaneous	1700 00
Parks and Playsteads	1500 00
Police	4500 00
Printing and Stationery	1150 00
Public Dump	75 00
Retirement of Veterans, Acts 1912	300 00
Redemption of Water Bonds	11000 00
Redemption Andover Loan Act Bonds	5000 00
Redemption Abbott Village Sewer Bonds	4505 67
Schools	47000 00

Amount carried forward

\$144105 67

<i>Amount brought forward</i>	\$144105 67
Sewer Department	
Maintenance	1800 00
Sinking Funds	1000 00
Soldiers' Relief	900 00
Spring Grove Cemetery	1000 00
And receipts from sale of lots	
State Aid	1500 00
Street Lighting	6500 00
Town Officers	6650 00
Town House	2000 00
Tree Warden and Gypsy and Browntail Moth	
Department	3500 00
Water Department	
Maintenance	11000 00
Construction	1500 00
Sinking Funds	750 00
	<hr/>
Total	\$182205 67
Estimated County Tax	16000 00
Estimated State Tax	23500 00
	<hr/>
	\$221705 67

The Finance Committee is also required to make recommendations to the voters in regard to all Articles in the Town Warrant involving the expenditure of money. The Committee, therefore makes the following recommendations:

- Article 4. Approved.
- Article 5. Approved. Appropriation not to exceed \$350.
- Article 6. Referred to Board of Public Works.
- Article 7. Referred to Board of Public Works.
- Article 8. Referred to Board of Public Works.
- Article 9. Approved. Sum not to exceed \$5000.

- Article 10. Report and Recommendation approved.
Article 11. Referred to Lighting Committee.
Article 12. Referred to Lighting Committee.
Article 13. Referred to Board of Public Works.
Article 14. Recommended.

HARRY M. EAMES
SAMUEL H. BAILEY
JOHN H. CAMPION
HENRY A. BODWELL
JOSEPH L. BURNS
SAMUEL H. BOUTWELL
GEORGE ABBOT
WALTER M. LAMONT
THOMAS E. RHODES

Finance Committee

TOWN WARRANT

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the sixth day of March, 1916, at 6 o'clock A.M., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, five Trustees of the Punchard Free School for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, seven Trustees of Spring Grove Cemetery for three years, Fence Viewers, Pound Keeper, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public

Dump, Retirement of Veterans, Redemption of Water, Sewer, and Andover Loan Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will accept the provisions of Sections 1, 2, and 4, and the eight following sections of Chapter 655, Acts of 1913, and appoint a committee of five (5) to be known as the Committee on Building Laws, said committee to submit a printed report to the voters on or before March 1, 1917. That the sum of \$25 be appropriated for the expenses of said committee, upon petition of the Selectmen.

Article 5.—To see if the town will appropriate money for a fire alarm box to be located on South Main Street, near Gould Road, on petition of Harry W. Hayward and others.

Article 6.—To see if the town will appropriate the sum of two thousand (\$2000) dollars for the extension of the macadam road on Salem Street and Jenkins Road, on petition of Everett W. Ricker and others.

Article 7.—To see if the town will appropriate \$3500 to macadam River Road from Martin Lydon's to Fish Brook and repair the River Road to the Tewksbury line, on petition of Samuel H. Boutwell and others.

Article 8.—To see if the town will appropriate \$1000 to repair Bailey Road to Tewksbury line, Pleasant Street to Boutwell Road, and Boutwell Road to River Road, on petition of James E. Dodge and others.

Article 9.—To see if the town will appropriate the sum of \$5000 to macadam Lowell Street, on petition of the Board of Public Works.

Article 10.—To hear the report of the Special Committee, appointed March, 1915, relative to the erection of a new high school building, and to act upon its recommendations as follows:— That the town shall vote to raise and appropriate the

sum of one hundred thousand dollars (\$100,000) for the purpose of building and equipping a new high school building to be located on land in front of the present Punchard School building; to make any changes deemed necessary to preserve and use the present Punchard School building; and to make any necessary changes in the Central Heating Plant and its connections.

That for the purpose of building and equipping said new high school building the Town Treasurer is hereby authorized to issue and sell bonds of the town to an amount not exceeding \$100,000, dated October 1, 1916, and payable \$5000 thereof on the first of October in each of the years 1917-1936 inclusive, bearing interest at a rate not exceeding 4 per cent per annum payable semi-annually. The said bonds shall be denominated on their face Andover High School Loan 1916.

That the Moderator appoint a committee of five in number to be known as the High School Building Committee, said committee to be authorized and instructed to obtain plans, make contracts, approve payments, and to do and act as may be necessary and proper to carry out all provisions of the foregoing vote.

Article 11.—To see if the town will appropriate a sum of money to extend the street lighting system up Prospect Hill Road, on petition of George M. Garland and others.

Article 12.—To see if the town will vote to change the light now at the foot of Bancroft Road and Main Street to pole on opposite side of Bancroft Road, also place a new light opposite pumping station on Bancroft Road, on petition of Fred E. Cheever and others.

Article 13.—To see if the town will vote to extend the water system on Bellevue Road from the Osgood Schoolhouse to the Boston & Maine track, a distance of about 2800 feet, on petition of Fred T. Harrington and others.

Article 14.—To see if the town will vote to accept the Boulders so-called, near the Boston & Maine station, as a part of the Park system of the Town of Andover.

Article 15.—To fix the pay of the firemen for the ensuing year.

Article 16.—To determine the method of collecting the taxes for the ensuing year.

Article 17.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18.—To determine what disposition shall be made of unexpended appropriations.

Article 19.—To act upon the report of the Town Officers.

Article 20.—To determine the amount of money to be raised by taxation the ensuing year.

Article 21.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock P.M.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by the By-Laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this nineteenth day of February, A.D. 1916.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

PUNCHARD FREE SCHOOL

REV. E. VICTOR BIGELOW	MYRON E. GUTTERSON
REV. C. W. HENRY	HARRY H. NOYES
REV. NEWMAN MATTHEWS	HARRY M. EAMES
S. H. BOUTWELL	FRANK T. CARLTON

Trustees

REPORT OF TREASURER

1915 PRINCIPAL FUND

January 1st

Cash in Bank	\$ 465 53	
Real Estate, Mortgages and Bonds	75988 75	
	<hr/>	\$76454 28

December 31st

Real Estate, Mortgages and Bonds	\$75988 75	
Cash in Bank	465 53	
	<hr/>	\$76454 28

January 1st

Cash on hand	\$ 465 53	
Mortgage paid during year	1350 00	
	<hr/>	\$1815 53

December 31st

Invested in new Mortgage	\$1350 00	
Cash on hand	465 53	
	<hr/>	\$1815 53

INCOME

January 1st

Cash on hand	\$1231 19	
Interest on Mortgage and Bonds	3974 57	
	<hr/>	\$5205 76

EXPENDITURES

N. C. Hamblin, Principal	\$ 800 00	
Edna G. Chapin, instructor	850 00	
Caroline M. Davis, instructor	560 00	
Helen M. Dunn, instructor	815 00	
Percival M. Symonds, instructor	240 00	
Travel—N. C. Hamblin	8 51	
Andover Nat'l Bank, security box	5 00	
Harry H. Noyes, treasurer	200 00	
Postage and Stationery	1 75	
Expense	10 57	
Rogers & Angus, insurance	25 00	
Balance	1689 93	
	<hr/>	\$5205 76

BARNARD FUND

January 1st		
Cash on hand	\$ 25 50	
Dividends	40 00	
	<hr/>	\$ 65 50
Prizes awarded		
First Prize—Eldred W. Larkin	\$ 20 00	
Second Prize—Gertrude W. Berry	12 00	
Third Prize—William R. Brewster	8 00	
Cash on hand	25 50	
	<hr/>	\$ 65 50

DRAPER FUND

January 1st		
Cash on hand	\$1308 74	
Dividends	52 84	
	<hr/>	\$1361 58

GOLDSMITH FUND

January 1st		
Cash on hand	\$ 251 86	
Dividends	10 14	
	<hr/>	\$ 262 00
Prizes awarded		
Girl's Prize—Marian E. Matthews	\$ 5 00	
Boy's Prize—Herbert W. Holt	5 00	
Cash on hand	252 00	
	<hr/>	\$ 262 00

HARRY H. NOYES
Treasurer

Examined and found correct.

FRANK T. CARLTON
HARRY M. EAMES
Auditors

MEMORIAL HALL LIBRARY

FORTY-THIRD ANNUAL REPORT OF THE BOARD OF TRUSTEES

The Trustees hereby submit to the Town their annual Report
for 1915, together with the complete Report of the Librarian.
Respectfully submitted,

E. KENDALL JENKINS
FREDERIC S. BOUTWELL
C. C. CARPENTER
JOHN ALDEN
ALFRED E. STEARNS
GEORGE F. SMITH
BURTON S. FLAGG

Trustees

Andover, Feb. 19, 1916

TRUSTEES OF MEMORIAL HALL LIBRARY
In account with the Town of ANDOVER, MASS.

RECEIPTS

Balance from last year	\$ 4447 79
Town appropriation	1800 00
Dog tax	655 51
Income from investments	3114 96
Fines	143 07
Gifts	17 20
	<hr/>
	\$10178 53

EXPENDITURES

Salaries	\$ 3318 59
Lighting and heating	468 85
Periodicals	173 65
Bookbinding	251 39
Books	718 64
New heating plant	945 00
Fire escape	448 00
Repairs	196 81
Typewriter	50 00
Sundry items	195 01
Cash on hand	3412 59
	<hr/>
	\$10178 53

In the above statement of expenditures is included the cost of maintaining the Ballardvale Branch Library, which, itemized, is as follows:—

Running expenses, salaries, etc.	\$202 98
Lighting and heating	20 80
Books	103 90
	<hr/>
	\$327 68

Statement of Income and Expenses of the Trustees of Memorial Hall Library for the Year Ending January 20, 1916

INCOME

	Maint.	Books	Cornell	Total
Income from investments	\$2140 48	\$748 58	\$225 90	\$3114 96
Town appropriation	1800 00			1800 00
Dog tax	655 51			655 51
Gifts	2 20	15 00		17 20
Fines	140 54	2 53		143 07
Total	\$4738 73	\$766 11	\$225 90	\$5730 74

EXPENDITURES

Salaries	\$3216 93		\$101 66	\$3340 59
Lighting and heating	370 06		98 79	446 85
Books, periodicals, etc.	173 65	718 64		892 29
Bookbinding	251 39			251 39
New heating plant	945 00			945 00
Fire escape	448 00			448 00
Typewriter	50 00			50 00
Repairs	196 81			196 81
Sundry items	195 01			105 01
Total	\$5846 85	\$718 64	\$200 45	\$6765 94
Unexpended income	*1108 12	47 47	25 45	*1035 20
* Deficit for one year.				

Condition of Funds and Unexpended Income on hand Jan. 20, 1916

	Funds	Unex. Inc.
Maintenance Fund	\$46600 00	\$1208 90
Book Funds (general)	13600 00	338 28
Book Funds (special)	3200 00	305 62
Cornell Fund (permanent)	5000 00	183 35
Cornell Fund (purchase)	2700 00	1170 35
Special		64 94
	\$71100 00	\$3271 44

The unexpended income on hand from the Cornell purchase fund, owing to the crowded condition of the building, cannot be used. The Trustees have therefore decided to reinvest \$1000.

INVESTMENTS

Bangor & Aroostook R.R. 4s	\$11000 00
Boston Elevated Railway Co., 4s	10000 00
Chicago Railways Co., 5s	9962 50
Montreal Tramways Co., 5s	9962 50
Michigan State Tel. Co., 5s	4981 25
Boston & Maine R.R., 4s	2000 00
Boston & Albany R.R. Co. Equip. Trust, 4½s	2981 10
Pacific Tel. & Tel. Co., 5s	1000 00
Mortgage	4000 00
Savings Banks	13500 00
Am. Tel. & Tel. Co., 4 shares	571 50
Principal Cash	141 15
	<hr/>
Total	\$71100 00
Income cash on hand	3271 44
Principal cash on hand	141 15
	<hr/>
Total	\$3412 59

FREDERIC S. BOUTWELL, *Treasurer*

We certify that we have examined and found correct the above statements as of January 20, 1916, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash on deposit as shown has been verified and found correct.

BURTON S. FLAGG
GEO. F. SMITH

Auditors

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the library for the twelve months ending December 31, 1915.

The circulation for the year is 41637 books as compared with 41130 for 1914. This increase is due to larger use of the main library since the number of volumes issued at Ballardvale is less than last year, 7582 instead of 7992. This decrease was to be expected, since the use of a branch when first opened is almost always larger than the normal level which it afterwards reaches. The present circulation is good in proportion to the population of Andover, 5.7 books per capita.

Two important changes were made in the Memorial Hall during the year; the addition of a fire escape as required by the state law, and the equipping of the building with steam heat. To have the furnaces that had been in commission for over forty years removed and an adequate heating plant installed was greatly appreciated by all who use the library. The change from a temperature at best around 60 and often lower, where no proper ventilation was possible, to conditions where plenty of fresh air can be supplied and the library still be perfectly comfortable, is an improvement that calls forth constant appreciative comment and is doubtless a factor in the increased use. Not one criticism of the ventilation has been made this season and people who complained bitterly in the past, now occupy the reading-room in comfort. The only regret is that the plant should be installed in a place so plainly inadequate for the needs of the library, but the new boiler is capable of heating a larger building when we have the addition so much needed.

The reference use of the library continues large, particularly by the schools. Did space only permit, we should duplicate many books especially wanted by the children, but we have no place to put them. Students are naturally exasperated when we can provide only one or two copies of a book for the use of a class of thirty. Other libraries with adequate accommodations

solve this problem satisfactorily by purchasing "school duplicates", but as has been repeatedly said, the Andover library can never do what it has in its power to do, or be what it might be to the schools and to the town, until it has more room.

The four travelling libraries purchased last year for the outlying schools have been appreciated. The school department has attended to their transportation and assumed responsibility for their safety. They were composed of one hundred different books proved by experience to be liked and enjoyed by children.

An unusually large number of books were withdrawn during the year because they had been in houses where scarlet fever or diphtheria developed. Such cases are reported to us at once by the Board of Health, and it is our invariable custom to destroy any volume that has been exposed to possible contagion, even when, as occurred this year in several instances, the books were perfectly new. The library prefers to bear this loss in order that parents may be confident that all proper precautions are taken.

We have received from different people gifts of books and pamphlets. From the estate of George H. Torr came a number of books which were of use both in the main library and at Ballardvale. There was also an unusual and valuable portrait engraving of Lincoln. Mr. George Ripley has presented both library and branch with a quantity of helpful and inspiring literature. Another interesting addition is a large assortment of books and pamphlets relating to the European war, presented by Sir Gilbert Parker.

In regard to the immense amount of war literature flooding the market, our purchases have been most conservative. The few books we have bought are those possessing a certain value of human interest, such as Kreisler's "Four weeks in the trenches," Aldrich's "Hill-top on the Marne," or Wister's wonderful "Pentecost of Calamity." Believing that our readers obtain from daily papers and current magazines all they want of war conditions, we have avoided fiction, particularly all juvenile fiction, based on the present conflict. There is not the usual demand for stories of exciting adventure; actual life is affording sufficient variety for all but the most hardened novel-readers. Instead, people are asking for quiet stories, of home

life or character study rather than fiction. There is a remarkable demand for the older English novelists, Trollope, Thackeray, Brontë, and Dickens. People are turning to them as a relief from the strain of world war.

The branch at Ballardvale shows enthusiastic use. It has now 1011 volumes belonging to it. Much of its success is due to its librarian, Miss Byington, whose personal interest and knowledge of the village form a big factor in its popularity. While the percentage of fiction circulated is large, it need not be deplored, for part of the branch's reason for existence is to bring to the children and the older people, clean, wholesome, recreative reading. Miss Byington reports that additional shelving will be required this coming spring. Fortunately there is ample wall space. Ballardvale also wishes to have the immediate approach to the building made more attractive, levelled and planted with grass. The estimate obtained shows that needed loam, work, etc. will cost about seventy-five dollars. Since the presence of the library in the building is the cause of the village interest to have the vicinity improved, it is hoped that the change may be made possible at the coming town meeting.

Our own cramped quarters have forced us this year to request the discontinuance of such government publications as the Congressional Record, Patent Office gazette, and other valuable documents which have been sent us free for years. Not until the town, or somebody who cares to do something for the town, makes possible the addition needed to the present building, will the Memorial Hall Library be able to offer the very high type of library service that might be enjoyed by the community of Andover.

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

JAN. 1, 1915 – DEC. 31, 1915

Number of books issued for home use at Memorial Hall,	34055
Number issued at Ballardvale,	7582
Total,	41637
Percentage of fiction circulated,	70
Percentage of non-fiction circulated,	30
New borrowers registered, 1915,	300
Actual number of cards in use,	2377
Books added by purchase,	722
Books added by gift,	122
Total accessions,	844
Books withdrawn, worn out, etc.,	158
Total number of books in library,	22503
Volumes rebound,	300
Volumes bound, periodicals, etc.,	75

BALLARDVALE

Number of books issued for home use,	7582
Percentage of fiction,	87
Percentage of non-fiction,	13
Number of cards in use,	330
Books added during 1915,	177
Books now belonging to branch,	1011

GIFTS TO THE LIBRARY

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from societies, the Andover Village Improvement Society; and from the following individuals:

Mrs. J. N. Ashton; C. K. Bancroft; E. T. Brewster; Miss Martha Byington; C. C. Carpenter; J. H. Flint; W. D. Foulke; F. M. Hueffer; W. K. Moorehead; O. W. Norton; Miss Agnes Park; Mrs. George Ripley; G. B. Ripley; M. W. Stackpole; Mrs. J. P. Taylor; G. H. Torr; and F. W. Whitridge.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews.

Atlantic monthly.

Blackwood's magazine.

Bookman.

Book review digest.

Catholic world.

Century.

Country gentleman.

Christian Endeavor world, (gift).

Country life in America.

Craftsman.

Cumulative book index.

Education.

Elementary school journal.

Etude.

Forum.

Garden magazine, (gift).

Guide to nature, (gift).

Harper's magazine.

House beautiful, (gift).

Independent.

International studio, (gift).

Ladies' home journal.

Library journal.

Life.

Literary digest.

Littell's living age.

London weekly Times.

Missionary review of the world.

Nation.

National geographic magazine.

Nineteenth century.

North American review.

Outing.

Outlook.

Popular mechanics.

Practical engineer.
Public libraries.
Punch, (gift).
Readers' guide to periodical literature.
St. Nicholas.
School arts magazine.
Scientific American.
Scribner's magazine.
Something to do.
Survey.
Woman's Home Companion.
World's work.
Youth's companion.
Andover Townsman.
Boston Advertiser.
Boston Herald.
Boston Transcript.
Christian Science Monitor, (gift).
Lawrence Telegram.
New York Times.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School, are required to have their applications endorsed by both teacher and parent.

All grown people are allowed to take two books, provided that one only is fiction. This privilege is also given to the Punchard pupils. Teachers are permitted to draw ten books strictly for school use. These books are subject to the ordinary rules of the library.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book". Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction, is especially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right hand drawers of the case contain a second arrange-

ment of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

NEW BOOKS ADDED IN 1915

State and government documents, such as the Massachusetts Acts and Resolves, Manual of the General Court, etc., and annual reports regularly received and kept in the library for reference are not listed. Duplicates purchased for Ballardvale, or replacements are also not included.

GENERAL REFERENCE BOOKS

- | | |
|------------|---|
| 808 B28 | Bartlett, John, comp. Familiar quotations. New ed. |
| 374 B87e | Bullock, E. D. Selected articles on the employment of women. |
| 374 B87s | Bullock, E. D. comp. Selected articles on the single tax. |
| 266 D66e | Dwight, H. O. ed. Encyclopedia of missions. |
| 031 E93 | Everyman's encyclopedia. 12v. |
| 203 H28 | Hastings, James, ed. Encyclopedia of religion and ethics, v. 7. |
| 970.1 H66 | *Hodge, F. W. ed. Handbook of American Indians. 2v. |
| 603 H77 | Hopkins, A. A. ed. Scientific American encyclopedia of formulas. |
| 374 J92g | Judson, K. B. comp. Selected articles on government ownership of telegraph and telephone. |
| 353 M22 | McLaughlin & Hart, ed. Cyclopedia of American government. 3v. |
| 370.9 M92 | Monroe, Paul, ed. Cyclopedia of education, v. 3-5. |
| 374 M82f | Morgan, J. E. comp. Free trade and protection. |
| 031 N42 | New international encyclopedia, v. 1-16. New ed. |
| 913.38 P33 | Peck, H. T. ed. Harper's dictionary of classical literature and antiquities. |
| 374 P51m | Phelps, E. M. comp. Selected articles on the Monroe doctrine. |
| 374 P51r | Phelps, E. M. comp. Selected articles on the recall. |
| 374 R53r | Robbins, E. C. comp. Selected articles on reciprocity. |
| 317.3 U58s | *U.S.-Census bureau. Statistical atlas of the United States. |

PERIODICALS

- | | |
|-----------|--|
| 051 R32 | American monthly review of reviews, v. 50, 51. |
| 071 A552 | Andover Townsman, v 27. |
| 051 A881 | Atlantic monthly, v. 114, 115. |
| 052 B56 | Blackwood's Edinburgh magazine, v. 196. |
| 051 B64 | Bookman, v. 41. |
| 052 E21 | Edinburgh review, v. 219-220. |
| 370.5 E25 | Education, v. 35. |
| 370.5 E39 | Elementary school teacher, v. 15. |

*Gifts

051 F77	Forum, v. 52, 53.
051 H23	Harper's magazine, v. 130.
705 H81	*House beautiful, v. 36, 37.
051 I38	Independent, v. 77-82.
705 I61	*International studio, v. 54, 55.
020.5 L61	Library journal, v. 39.
051 L71	Littell's living age, v. 279-286.
071 N21	Nation, v. 97-100.
910.5 N21	National geographic magazine, v. 26, 27.
052 N62	Nineteenth century, v. 76, 77.
051 N81	North American review, v. 200, 201.
799.5 O94	Outing, v. 66.
051 O94	Outlook, v. 108-110.
621 P81	Popular mechanics, v. 22, 23.
505 P81	Popular science monthly, v. 85, 86.
605 S416	Scientific American, v. 111, 112.
051 S434	Scribner's magazine, v. 56, 57.
305 S96	Survey, v. 32.

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

248 A13	Abbott, Lyman. Letters to unknown friends.
252 A131	*Abbott, Lyman. Life that really is.
126 B65	Bosanquet, Bernard. Principle of individuality and value.
230 B95	Burton, M. L. Our intellectual attitude in an age of criticism.
288 C77	*Cooke, G. W. Unitarianism in America.
174 D29	Davis, J. B. Vocational and moral guidance.
109 E86	Eucken, Rudolph. Problem of human life.
266 F27	Faunce, W. H. P. Social aspects of foreign missions.
173 F74	Forbush, W. B. Boy problem in the home.
170 G45	Gladden, Washington. Live and learn.
244 G86p	*Grenfell, W. T. Prize of life.
230 H24	Harris, George. Century's changes in religion.
270.1 H66	Hodges, George. Early church from Ignatius to Augustine.
283 H66	Hodges, George. The Episcopal church.
274.2 L71	Littell, J. S. Historians and the English reformation.
288 M36	*Martineau, James. Studies of Christianity.
174 P14	Page, E. D. Trade morals.
171 P31	Peabody, F. G. Christian life in the modern world.
220.9 S21h	Sanders, F. K. History of the Hebrews.
248 S63	*Slattery, Margaret. Girl and her religion.
248 S63p	*Slattery, Margaret. Girl's book of prayers.
261 S63	*Slattery, Margaret. He took it upon himself.
244 S63s	*Slattery, Margaret. The seed, the soil, and the sower.

- 174 S97 Switzer, Maurice. Letters of a self-made failure.
 178.9 T66 Towns, C. B. Habits that handicap.
 221.8 W64 Wild, L. H. Geographic influences in Old Testament masterpieces.
 252 W89 Worcester, Elwood. Religion and life.

GENERAL ECONOMICS

- 647 B24 Barker, C. H. Wanted: a young woman to do housework.
 361 B49 Billington, M. F. Red Cross in war.
 396 B55 *Björkman & Porritt, ed. Woman suffrage.
 377.2 C11 Cabot, E. L & others. Course in citizenship.
 396 C27 Cass, A. H. Practical programs for women's clubs.
 338.5 C54 Clark, W. E. Cost of living.
 351.8 D92 Du Puy, W. A. Uncle Sam's modern miracles.
 396 G63 *Goodwin, G. D. Anti-suffrage.
 359 N29 Neeser, R. W. Our navy and the next war.
 330 P42 Perris, G. H. Industrial history of modern England.
 658 S43 Scott, W. D. Increasing human efficiency in business.
 659 S43 Scott, W. D. Psychology of advertising.
 174 W37 Weaver & Byler. Profitable vocations for boys.
 174 W84 Women's municipal league. Handbook of opportunities for vocational training in Boston.

BOOKS ON EDUCATION

(Purchased from the Phillips Fund for Books for Teachers)

- 371.5 B14 Bagley, W. C. School discipline.
 372.2 B15s Bailey, C. S. For the story teller.
 371.7 C94 Curtis, H. S. Education through play.
 371.6 D58 Dillaway, T. M. Decoration of the school and home.
 372 D65 Dobbs, E. V. Primary handwork.
 396 E14 Eaton & Stevens. Commercial work and training for girls.
 378 F55 Fitch, A. P. College course and the preparation for life.
 372.5 F87 Freeman, F. N. Teaching of handwriting.
 378 G23 Gauss, Christian, ed. Through college on nothing a year.
 353 H55 Hill, Mabel. Teaching of civics.
 028.5 L95 Lowe, Orton. Literature for children.
 808.9 O42 Olcott, F. J. ed. Good stories for great holidays.
 371 P18t Palmer, G. H. Trades and professions.
 634.9 P65t Pinchot, Gifford. Training of a forester.
 373 S24 Sargent, P. E. comp. Handbook of the best private schools.
 808.9 S62 Skinner, A. M. ed. Little folks' Christmas stories and plays.
 808.9 S64 Smith & Hazeltine, comp. Christmas in legend and stories.

- 371.9 W27 *Washington, B. T. Tuskegee.
 371.9 W93 Wright, J. D. What the mother of a deaf child ought to know.

NATURE BOOKS

- 598.2 B34 Baynes, E. H. Wild bird guests.
 580 C83 Cowles & Coulter. Spring flora for high schools.
 582 M43s Mathews, F. S. Field book of American trees and shrubs.
 570 P31 Peabody & Hunt. Elementary biology.
 580 W15 Wallace, Alexander. Heather in lore, lyric and lay.

BOOKS FOR THE HOME AND FARM

- 646 B43 Ben Yusef, Anna. Art of millinery.
 640 B75 Brewster, E. T. & L. Nutrition of a household.
 630 C88 Crow, M. F. American country girl.
 636.5 F24 Farrington, E. I. Home poultry book.
 635 G92 Grubb & Guilford. The potato.
 641 H55c Hill, J. M. Canning, preserving and jelly making.
 716 K58 King, L. Y. Well-considered garden.
 746 K68cu Klickman, Flora, ed. Cult of the needle.
 746 K68m Klickman, Flora, ed. Modern crochet book.
 630 K81 Koester, Frank. Electricity for the farm and home.
 641 L96 Luck, Mrs. Brian, ed. Belgian cookbook.
 640 M22 MacLeod, S. J. Housekeeper's handbook of cleaning.
 639 M47 *Meehan, W. E. Fish culture.
 625.7 P14 Page, L. W. Roads, paths and bridges.
 641 P92 Pretlow, M. D. comp. Small family cookbook.
 636 V61 Verrill, A. H. Pets for pleasure and profit.

GAMES AND AMUSEMENTS

- 793 B57 Blain, M. E. Games for Hallowe'en.
 793 D32 Dawson, Mary. Money-making entertainments for church and charity.
 822 F85 Frank, M. M. Short plays about famous authors.
 793 G51c Glover, E. H. ed. Dame Curtsey's book of games.
 793 G62 Goodlander, M. R. Fairy plays for children.
 796 G76 Graham & Clark. Practical track and field athletics.
 793 L97 Lütkenhaus & Knox. Plays for school children.
 797 M17 McGraw, J. J. How to play baseball.
 793 M19h Mackay, C. D. How to produce children's plays.
 797 P65 Pinkerton, R. E. The canoe.
 793 W15 Walker, A. J. Little plays from American history.
 796 W77 Withington, Paul, ed. Book of athletics.

BOOKS ON MECHANICAL AND FINE ARTS

738 B23g	Barber, E. A. American glassware.
759.5 B45c	Berenson, Bernhard. Central Italian painters of the renaissance.
759.5 B45n	Berenson, Bernhard. North Italian painters of the renaissance.
745 B59	Blanchard, M. M. Basketry book.
708.1 B84	Bryant, L. M. What pictures to see in America.
745 C83	Cox, G. J. Pottery for artists, craftsmen and teachers.
745 H88	Humphries, Sydney. Oriental carpets, runners and rugs.
750 H93h	Hurll, E. M. How to show pictures to children.
537.8 M82	Morgan, A. P. Wireless telegraphy and telephony.
745 P29	Payne, A. F. Art metalwork.
694 V61a	Verrill, A. H. Amateur carpenter.
533.6 V61	Verrill, A. H. Harper's aircraft book.
786 W65	Wilkinson, C. W. Well-known piano solos.

LITERATURE, ESSAYS AND POETRY

891.7 B24	Baring, Maurice. Outline of Russian literature.
822 B27h	Barrie, J. M. Half hours.
820.9 C42	Chesterton, G. K. Victorian age in English literature.
822.08 C54	Clark, B. H. British and American drama of to-day.
842.8 C54	Clark, B. H. Contemporary French dramatists.
840.9 C59	Clergue, Helen. The salon.
842 C81c	Corneille, Pierre. The Cid.
842 C81p	Corneille, Pierre. Polyeuctus.
824 C88m	Crothers, S. M. Meditations on votes for women.
821 D29c	Davis, F. S. Crack o' dawn.
821 D29m	Davis, F. S. Myself and I.
822.08 D56	Dickinson, T. H. ed. Chief contemporary dramatists.
821 K62zd	Durand, Ralph. Handbook to the poetry of Rudyard Kipling.
821 F92b	Frost, Robert. A boy's will.
821 F92n	Frost, Robert. North of Boston.
809.2 H91	Hunt, E. R. Play of to-day.
824 J41	Jenkins, MacGregor. The reading public.
821 C39zk	Kittredge, G. L. Chaucer and his poetry.
824.08 M43	Matthews, Brander, comp. Oxford book of American essays.
792 M72	Moderwell, H. K. Theatre of to-day.
824 P518b	Phelps, W. L. Essays on books.
821.08 R29	Repplier, Agnes, ed. Book of famous verse.
824 S92	Strunsky, Simeon. Belshazzar court.
840.9 V74	Vincent, L. H. The French academy.
827 W46	Wells, H. G. Boon, the Mind of the race, etc.

BOOKS IN FRENCH AND GERMAN

- | | |
|----------|---|
| 833 B87 | *Bulow, Babette von. Ein regentag auf dem lande. |
| 833 E16l | *Ebner-Eschenbach, Marie von. Krambambuli. |
| 833 G32g | *Gerstäcker, Friedrich. Germelshausen. |
| 832 G87 | *Grillparzer, Franz. Sappho. |
| 833 H51m | *Heyse, Paul. Das mädchen von Treppi. |
| 92 F875s | *Schrader, Ferdinand. Friedrich der grosse und der siebenjährige krieg. |
| 833 S88t | *Storm, Theodor. Geschichten aus der tonne. |
| 833 S94f | *Sudermann, Hermann. Frau Sorge. |
| 833 S94z | *Sudermann, Hermann. Im zwielicht. |
| 833 W64 | *Wildenbruch, Ernst von. Das edle blut. |

DESCRIPTION AND TRAVEL

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|-------------|--|
| 917.29 A21 | Adams, F. U. Conquest of the tropics. |
| 917.8 A42 | Allen, E. F. Guide to the National parks of America. |
| 914.15 B39 | Begbie, Harold. Happy Irish. |
| 919.8 B64 | Borup, George. Tenderfoot with Peary. |
| 914.2 C38 | Chase, Beatrice. Through a Dartmoor window. |
| 915.4 C54 | Clarke, F. E. Holy land of Asia minor. |
| 914.36 C55 | *Clark, F. E. Old homes of new Americans. |
| 915.1 C78 | Cooper, Elizabeth. My lady of the Chinese courtyard. |
| 914.93 E61 | Ensor, R. C. K. Belgium. |
| 914.57 F57 | Fitzgerald, S. & A. Naples. |
| 914.92 F62 | Flemwell, G. Alpine flowers and gardens. |
| 914.95 G18 | Garnett, L. M. J. Greece of the Hellenes. |
| 914.7 G19 | Garstin, Denis. Friendly Russia. |
| 917 H19 | Hannay, J. O. From Dublin to Chicago. |
| 917.3 H91 | Hunt, Gaillard. Life in America one hundred years ago. |
| 910.4 K44 | Kephart, Horace, ed. Castaways and Crusoes. |
| 918 K81 | Koebel & Forrest. South America. |
| 917.8 L44 | Lawson, W. P. Log of a timber cruiser. |
| 916.6 L89 | Loring, J. A. African adventure stories. |
| 914.53 L96 | Lucas, E. V. Wanderer in Venice. |
| 915.2 M37 | *Masaoka, Naoichi. Japan to America. |
| 914.15 M43 | Mathew & Walker. Ireland. |
| 919.1 M85 | *Moses, Edith. Unofficial letters of an official's wife. |
| 606 P19 | Panama-Pacific International exposition. Jewel city. |
| 917.9 P98 | Putnam, G. P. In the Oregon country. |
| 918 R73s | Ross, E. A. South of Panama. |
| 917.446 R72 | Rossiter, W. S. ed. Days and ways in old Boston. |
| 915.2 R91 | *Russell, Lindsay, ed. America to Japan. |
| 917.8 S53 | Sharp, D. L. Where rolls the Oregon. |
| 917.3 S54 | Shelley, H. C. America of the Americans. |
| 919.6 S847 | *Stevenson, Mrs. R. L. Cruise of the Janet Nichol. |

917.3 S93	Street, Julian. Abroad at home.
917.471 V28	Van Dyke, J. C. New New York.
917.291 V61	Verrill, A. H. Cuba past and present.

BIOGRAPHY

92 B442	Benson, A. C. Hugh, memoirs of a brother.
92 W463b	Beresford, J. D. H. G. Wells.
92 P261	Clark, William. Pascal and the Port Royalists.
92 C8841	*Crosby, Fanny. Memories of eighty years.
92 B439d	Darton, F. J. H. Arnold Bennett.
92 S958	*Ellis, W. T. Billy Sunday.
92 C171	Hawkins, C. J. Samuel Billings Capen.
92 J921	Hubbard, E. D. Ann of Ava.
927.8 L13s	Lahee, H. C. Famous singers of to-day and yesterday.
92 M774m	*McDowell, John. Dwight L. Moody.
92 R444	Rihbany, A. M. Far journey.
92 S534	Shaw, A. H. Story of a pioneer.
92 S812	Stedman & Gould. Life and letters of E. C. Stedman. 2v.
92 S851l	Stewart, E. P. Letters on an elk hunt.
92 L924t	Taylor, I. A. Making of a king, Louis XIII.
92 H322t	Thayer, W. R. Life and letters of John Hay. 2v.
92 C813	Trollope, H. M. Corneille and Racine.
92 W272s	*Washington, B. T. Story of my life and work.
	Vital records of Amesbury, Cambridge, Chelmsford, - Heath, Rochester and Tyngsboro.

HISTORY

940.9 A36	Aldrich, Mildred. Hilltop on the Marne.
940.9 B38	Beck, J. M. Evidence in the case.
940.9 B45	Bernhardi, Friedrich von. Germany and the next war.
940.9 E42	Eliot, C. W. Road toward peace.
986 F74t	Forbes-Lindsay, C. H. A. Panama and the canal to-day.
945 F82	*Foulke, W. D. History of the Langobards.
973 H25n	Hart, A. B. ed. American nation. 27v.
940.9 H87b	*Hueffer, F. M. Between St. Denis and St. George.
940.9 H87w	*Hueffer, F. M. When blood is their argument.
940.9 G31	I accuse (J'accuse!) by a German.
940.9 K87	Kreisler, Fritz. Four weeks in the trenches.
929.9 H24	Harrison, P. D. Stars and stripes and other Americam flags.
970.1 M78	*Moorehead, W. K. American Indian in the United States.
940.9 N48	New York Times current history of the war. v. 1-2.
973.7 N82	*Norton, O. W. Attack and defense of Little Round Top, Gettysburg, July 3, 1863.

- 940.9 P22w *Parker, Sir Gilbert. World in the crucible.
 940.9 S54 Sheip, S. S. ed. Handbook of the European war.
 940.9 S98 *Sydenham, Lord. India and the war.
 973.9 U84 Usher, R. G. Pan-Americanism.
 940.9 W36 *Waxweiler, Emile. Belgium neutral and loyal.
 930 W39 Webster, Hutton. Ancient history.
 940.9 W55 What I found out in the house of a German prince.
 940.9 W61 *Whitridge, F. W. One American's opinion of the
 European war.
 940.9 W76 *Wister, Owen. Pentecost of calamity.

FICTION

- Allen, F. N. S. Her wings.
 Allen, J. L. Sword of youth.
 Andrews & Murray. August first.
 Atkinson, Eleanor. Johnny Appleseed.
 Bailey, Temple. Contrary Mary.
 Barcynska, Hélène, ed. Little mother who sits at home.
 Bassett, S. W. Taming of Zenas Henry.
 Benson, R. H. Initiation.
 Benson, R. H. Loneliness?
 Benson, R. H. Richard Raynal, solitary.
 Bindloss, Harold. Long portage.
 Bindloss, Harold. Secret of the reef.
 Bordeaux, Henri. The house.
 Brebner, P. J. Christopher Quarles.
 Buckrose, Mrs. J. E. Spray on the windows.
 Caine, William. But she meant well.
 Carey, R. N. Other people's lives.
 Cather, W. S. Song of the lark.
 Chesterton, G. K. Wisdom of Father Brown.
 Childers, Erskine. Riddle of the sands.
 Churchill, Winston. Far country.
 Conrad, Joseph. Victory.
 Crockett, S. R. Hal o' the Ironsides.
 Daskam, J. D. B. Open market.
 Davis, R. H. Boy scout.
 Day, Holman. Landloper.
 DeLand, Margaret. Around old Chester.
 Doyle, Sir A. C. Valley of fear.
 Dudley, Robert. In my youth.
 Eaton, W. P. Idyll of Twin fires.
 Erskine, Mrs. Payne. Girl of the Blue ridge.
 Irvine, St. J. G. Alice and a family.
 Farnol, Jeffery. Honorable Mr. Tawnish.
 Ferber, Edna. Emma McChesney & Co.

Ferris, E. E. Business adventures of Billy Thomas.
 Fisher, Mrs. D. C. Bent twig.
 Fisher, Mrs. D. C. Hillsboro people.
 Foote, M. H. Valley road.
 Forman, J. M. Blind spot.
 Gale, Zona. Neighborhood stories.
 Gale, Zona. When I was a little girl.
 Garland, Hamlin. Cavanagh, forest ranger.
 Gillmore, I. H. Ollivant orphans.
 Grayson, David. Hempfield.
 Grey, Zane. Lone star ranger.
 Haggard, H. R. Allan and the holy flower.
 Hall, E. V. Matthew Hargreaves.
 Hannay, J. O. Minnie's bishop, etc.
 Hardy, A. S. Diane and her friends.
 Harrison, H. S. Angela's business.
 Hinkson, K. T. Her ladyship.
 Jacobs, W. W. Night watches.
 Johnston, Mary. The witch.
 Jordan, Elizabeth. May Iverson's career.
 Kirkland, Winifred. Old Diller place.
 Lafon, Andre. Jean Gilles.
 Lagerlöf, Selma. Jerusalem.
 Lee, Jennette. Aunt Jane.
 Leroux, Gaston. Phantom of the opera.
 Lincoln, J. C. Kent Knowles, quahaug.
 Lincoln, J. C. Thankful's inheritance.
 Little, Frances, pseud. House of the misty star.
 Locke, W. J. Jaffery.
 Lucas, E. V. Landmarks.
 Lutz, G. L. H. *Man of the desert.
 Malet, Lucas, pseud. Adrian Savage.
 Marshall, Archibald. House of Merrilees.
 Marshall, Archibald. Old order changeth.
 Martin, H. R. Martha of the Mennonite country.
 Merwin, Samuel. Honey bee.
 Miller, Elizabeth. Daybreak.
 Montgomery, L. M. Anne of the island.
 Norris, Kathleen. Story of Julia Page.
 O'Higgins, H. J. Adventures of Detective Barney.
 Olmstead, Florence. Cloistered romance.
 Onions, Oliver. Mushroom town.
 Oppenheim, E. P. Double traitor.
 Oppenheim, E. P. Mr. Grex of Monte Carlo.
 Oxenham, John. Maid of the mist.
 Parker, Sir Gilbert. Money master.

Peterson, M. H. The commodore.
 Phillpotts, Eden. Brunel's tower.
 Phillpotts, Eden. Old Delabole.
 Poole, Ernest. The harbor.
 Pawlowska, Yoï. A child went forth.
 Porter, Mrs. G. S. Michael O'Halloran.
 Prydz, Alvilde. Sanpriel.
 Purdon, K. F. Folk of Furry farm.
 Ridge, W. P. Happy recruit.
 Rinehart, M. R. Circular staircase.
 Rinehart, M. R. K.
 Roland, John. Good shepherd.
 Runkle, Bertha. Straight down the crooked lane.
 Singmaster, Elsie. Katy Gaumer.
 Skrine, M. J. H. Billie's mother.
 Smith, F. H. Felix O'Day.
 Stringer, Arthur. Prairie wife.
 Tarkington, Booth. Turmoil.
 Vaizey, Mrs. J. B. Lady Cassandra.
 Viele, H. K. Inn of the silver moon.
 Walpole, Hugh. Golden scarecrow.
 Walpole, Hugh. Wooden horse.
 Ward, Mrs. M. A. A. Coryston family.
 Ward, Mrs. M. A. A. Eltham house.
 Webbing, Peggy. Edgar Chirrup.
 Webster, Jean. Dear enemy.
 Wells, Carolyn. Maxwell mystery.
 Wells, H. G. Bealby.
 Whittles, T. D. *Parish of the pines.
 Wiggin, K. D. Penelope's postscripts.
 Williamson, C. N. & A. N. It happened in Egypt.
 Wilson, H. L. Ruggles of Red Gap.

CHILDREN'S BOOKS; NON-FICTION

973 A129d	Abbot, W. J. Story of our army.
353 A93	Austin, O. P. Uncle Sam's secrets.
642 B12	Bache, E. D. and L. F. When Mother lets us make candy.
292 B19o	Baldwin, James. Old Greek stories.
720 B28	Barstow, C. L. Famous buildings.
796 B38o	Beard, Lina & A. B. On the trail.
359 C64	Codd, M. J. With Evans to the Pacific.
614 D32	Dawson, Jean. Boys and girls of Garden city.
927.8 D68	Dole, N. H. Score of famous composers.
796 E13	Eastman, C. A. Indian scout talks.
641 F81	Foster, O. H. Cookery for little girls.
640 F81	Foster, O. H. Housekeeping for little girls.

646 F81	Foster, O. H. Sewing for little girls.
374 F81b	Foster, W. H. Debating for boys.
920 G37	Gilbert, Ariadne. More than conquerors.
973 G65s	Gordy, W. F. Stories of early American history.
622 G83	Greene, Homer. Coal and the coal mines.
917.8 G88w	Grinnell, G. B. Wolf hunters.
790 G92	Grubb, M. E. When Mother lets us make gifts.
172 G95	Gulliver, Lucile. Friendship of nations.
793 H14t	Hall, A. N. Home-made toys for girls and boys.
398.2 H14	Hall, Jennie. Viking tales.
914.93 J69	Jonckheere, Robert. When I was a boy in Belgium.
796 K28	Kelland, C. B. American boys' workshop.
232.9 K29	Kelman, J. H. Stories from the life of Christ.
92 S848o	Overton, J. M. Life of R. L. Stevenson.
796 P87	Powell, Sir R. B. Boy scouts beyond the seas.
796 R63	Rogers, Ethel. Sebago-Wohelo Camp Fire girls.
599 S41	Schwartz, J. A. Wilderness babies.
821.08 T32	Thacher, L. W. ed. The listening child.
910.4 T52	Tisdale, Lieu. Three years behind the guns.
598.2 T76	Trimmer, Sarah. History of the robins.
917.29 V61	Verrill, A. H. Cruise of the Cormorant.
920 W11	Wade, M. H. The light-bringers.

STORIES FOR CHILDREN

Altsheler, J. A. Star of Gettysburg.
 Barbour, R. H. Brother of a hero.
 Brady, C. T. Midshipman in the Pacific.
 Brown, E. A. Arnold's little brother.
 Burnett, Mrs. F. H. Lost prince.
 Chisholm, Louey, ed. Stories for the ten-year old.
 Coolidge, Susan. Eyebright.
 Dix, B. M. Little captive lad.
 Doubleday, Russell. Cattle ranch to college.
 Dyer, W. A. Pierrot, dog of Belgium.
 Eaton, W. P. Boy scouts of the Wildcat patrol.
 Fitzhugh, P. K. Along the Mohawk trail.
 Fitzgerald, Sir Percy. Jock of the bushveld.
 Gilchrist, B. B. Helen and the fifth cousins.
 Greene, Homer. Pickett's gap.
 Hale, L. P. Peterkin papers.
 Mason, A. B. Tom Strong, junior.
 Martineau, Harriet. Crofton boys.
 Matthews, Brander. Tom Paulding.
 Nesbit, E. pseud. New treasure seekers.
 Nesbit, E. pseud. Story of the amulet.
 Nesbit, E. pseud. Railway children.

Perkins, L. F. Eskimo twins.
Quirk, L. W. Boy scouts of Black eagle patrol.
Rankin, C. W. Cinder pond.
Schultz, J. W. On the warpath.
Ségur, Sophie. Sophie's troubles.
Ségur, Sophie. Story of a donkey.
Shaw, F. L. Castle Blair.
Stein, Evaleen. Gabriel and the hour book.
Stevenson, B. E. Tommy Remington's battle.
Tomlinson, E. T. Four boys on the Mississippi.
Waller, M. E. Daughter of the rich.
Wheeler, F. R. Boy with the United States life-savers.

REPORT OF CUSTODIAN JOHN CORNELL ART GALERY

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1915.

The attendance for the year has been 668. Of this number 223 were adults and 445 children — a small attendance compared to some of the preceding years, but very good when one considers the fact that the gallery has been frequented for fifteen years, and that there are now many attractions, particularly for the children, that did not exist years ago.

The gallery has certainly been a source of pleasure and profit to many people. It is interesting and encouraging to see the thoughtful consideration of the pictures that is shown by some of the school children. Picture-study in the schools should be attended by frequent visits to the gallery, particularly by the High School pupils. There they would find much to quicken their interest in history and literature as well as art. They could spend much time studying Velasquez's "The Surrender of Breda", or "The Lances" as it is often called. This picture should lead them to desire to become acquainted with the history of the unconquerable Dutch nation. And this is only *one* of the many inspiring pictures in the gallery.

The stereographs are still enjoyed by many, adults as well as children finding them most helpful. New subjects would be most welcome, and are, in fact, needed.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

SIXTEENTH
ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE TWENTY-SEVENTH ANNUAL REPORT OF
WATER COMMISSIONERS AND NINETEENTH
ANNUAL REPORT OF SEWER
COMMISSIONERS

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1915

ANDOVER, MASS.
THE ANDOVER PRESS
1916

WATER COMMISSIONERS

1889—1899

JOHN H. FLINT

*JAMES P. BUTTERFIELD

FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

JOHN L. SMITH

CHAS. E. ABBOTT

1894—1899

*WM. S. JENKINS

JOHN L. SMITH

JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

JOHN H. FLINT

*WM. S. JENKINS

JOHN L. SMITH

*JAMES P. BUTTERFIELD

FELIX G. HAYNES

1903—1906

JOHN L. SMITH

FELIX G. HAYNES

JOHN W. BELL

LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

FELIX G. HAYNES

JOHN W. BELL, Treas.

JAMES C. SAWYER, Secy.

LEWIS T. HARDY

HARRY M. EAMES

1907—1908

FELIX G. HAYNES

JOHN W. BELL, Treas.

JAMES C. SAWYER, Secy.

LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

LEWIS T. HARDY

JOHN W. BELL, Treas.

JAMES C. SAWYER, Secy.

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1915

ANDREW McTERNEN, Sec'y, '14

WILLIS B. HODGKINS, Treas., '14

1913—1916

LEWIS T. HARDY

BARNETT ROGERS

1913—1917

THOMAS E. RHODES, Chairman, '14

SUPERINTENDENT

FRANK L. COLE

*Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover:

Your Board of Public Works submit their third annual report (actual service from May 5, 1913), which is also the twenty-seventh of the Water System, and the nineteenth of the Sewer System, for the year ending December 31, 1915. This is also the third annual report of the Highway and Park Departments under the Board of Public Works.

ORGANIZATION

On the re-election of Willis B. Hodgkins and Andrew McTernen for the term of three years, the personnel of the Board of Public works remains the same as last year, viz: Barnett Rogers, Lewis T. Hardy, Willis B. Hodgkins, Andrew McTernen and Thomas E. Rhodes. The organization of the present Board of Public Works occurred March 3, 1915, with the following rank, viz: Chairman, Thomas E. Rhodes; Secretary, Andrew McTernen; Treasurer, Willis B. Hodgkins. The Board re-appointed Frank L. Cole as Superintendent of all the departments under the control of the Board of Public Works at a salary of \$2100. Arthur R. Morse was also re-appointed clerk and assistant superintendent of all the departments under the control of the Board of Public Works.

WATER DEPARTMENT

For a detailed account of this department see the Superintendent's report. Water-main extensions this year are below the average, which is about two miles per year for the past ten years.

Our present mileage is 50.08 miles, an increase of .44 miles. Increase of service-pipes 60, increase in meters 67 and in hydrants

5. Cost of total maintenance per million gallons \$42.49, revenue per million gallons \$93.32, leaving a balance per million gallons of \$50.83, an increase balance per million gallons over last year of \$29.48. Your Board recommended that the sum of \$10,000 be appropriated for maintenance, \$1500 for construction, and \$750 for sinking fund.

THE WATER BONDED DEBT

The bonded debt of the Water System is \$173,000, there having been paid during the year 1915 \$8000 of the 4% bonds and \$3000 of the 3½% bonds. No bonds were issued during 1915, all authorized bonds having been issued.

Of the above amount of indebtedness \$50,000 is redeemable by sinking funds which amount to \$32,046.29 and an appropriation of \$750 is asked for the Sinking Funds.

THE SEWER DEPARTMENT

For a detailed account of the Sewer Department see the report of the Superintendent. The chief feature to report is the extension of the sewer on Elm Street according to a plan previously accepted by the Town. The rebuilding of Elm Street necessitated the extension of this sewer. Sewer extension on Summer and Avon Streets was not according to the plan accepted by the Town, but the building activity on these streets required prompt action, and your Board deemed it wise to do the extension, believing that the welfare and public health required it. In the construction of the Abbott Village Sewer the Town is rid of the pump and nuisance on Phillips Street. The upkeep of the filter-beds has been satisfactory to the State Board of Health and to your Board. Their capacity to do work has never been greater. Your Board would recommend that the sum of \$2000 be appropriated for maintenance. We recommend for sinking fund \$1000; for first payment on Abbott Village Sewer Bond Loan \$4505.67.

THE SEWER BONDED DEBT

The Sinking Fund is \$15099.28. During 1915, \$7000 of bonds were sold. This amount is the balance of the \$10,000 authorized by the Town in March, 1910. These bonds are due

in 1919, and \$30,000 due in 1928, leaving a net bonded debt of \$24900.72. An appropriation of \$1000 is asked for.

ABBOTT VILLAGE SEWER SYSTEM

At a special town meeting, March 31, 1915, the Town voted to accept the sewer plan of McClintock and Woodfall, known as the Abbott Village Sewer, and authorized the issuance of bonds to the amount of \$75,000 for the construction of the sewer. After the proper officials had concluded favorably the necessary negotiations and the assurance of the sale of the bonds, your Board appointed Mr. John Franklin to draw up specifications and plans preliminary to calling for bids, and to act as the Town's engineer to look after the Town's interests in the construction of the sewer at a commission of seven per cent on the cost of construction. The work was divided into three parts in the call for bids, viz: 1st, laying of the mains, manholes and related work; 2nd, pump-house and equipment; and 3rd, filter-beds. The call for bids on the laying of mains, etc., resulted in the employment of Cenedella Co., at the sum of \$39,739, rock \$5.50 per cubic yard, and lumber \$50 per thousand feet. The lowest bid on pump-house was \$6918.50, and was awarded to Philip L. Hardy. Equipment for pump-house was given to the Lawrence Gas Co. at \$2620. The filter-beds will be constructed by the Sewer Department. The sewer was to be completed by November 1, 1915, but on account of unavoidable obstacles such as storms, high water in the river, and the unforeseen quantity of rock excavation required, Mr. Cenedella asked for more time, which was granted. As your Board could not wisely accept the constructed sewer until spring, there was no necessity for an earlier completion, as the work which was in progress was on private land and did not interfere with travel.

Because of the unfavorable condition of the old sewer-main and the smallness of the pipe that conveyed the sewerage from the old pump-house up Main to Harding and then to High Street, your Board believed it wise to lay a new main with greater capacity in a direct line from the new pump-house through private land. This would diminish the friction head and lessen the cost of maintenance. This pipe line was laid by the Sewer Department. For further information see the Engineer's report.

ANDOVER, MASS., January 1, 1916

To the Board of Public Works,
Andover, Mass.

Gentlemen:—

In connection with the construction of the Abbott Village Sewer, I have to report on the progress of the work as follows:—

The contract for constructing pipe-lines was awarded to Cenedella & Company of Milford, Mass., on the 21st day of July, 1915. The prices agreed upon were as follows:

For completing the work according to plan, excepting rock excavation, and timber and gravel foundations, \$39,739.

For rock excavation, \$5.50 per cubic yard.

For timber foundation, \$50.00 per M.

For gravel foundations, \$1.00 per cubic yard.

Work was started as soon as the contract was signed. During the first two months much interference was caused by frequent rains, about 26 days being lost on this account. Much more rock has been encountered than was expected, so it was not possible to complete the work within the time limit. The pipe-laying is now nearly completed, only about 100 feet remaining to be done. There is a good deal of back filling and cleaning up to do, most of which will have to be done in the spring.

The amount of money paid to Cenedella & Co., up to January 1st, including the December estimate, is \$39,290.

The total amount of rock excavated up to January 1st, is 1741 cubic yards. The total number of feet of sewer built is as follows:—

16" pipe	2860 feet
15" pipe	3882 feet
10" pipe	2018 feet
8" pipe	5436 feet
6" pipe	1060 feet
<hr/>	
Total	15256 feet

The contract to build the pump-house was awarded to Philip Hardy for \$6918.50. Work was started October 6th. The buildings are now nearly completed. The grading of the lot

cannot be completed until spring. Amount paid on pump-house to date is \$4000.

The contract for pumps and motors was awarded to the Lawrence Gas Company for \$2620. The pumps are nearly ready to be installed, but there will be a considerable delay in getting the motors.

An 8-inch force-main has been laid from the new pump-house to the outlet sewer on High Street. A new sludge-bed has been completed and much grading has been done preparatory to putting in the new filter-beds. The work of building the new filter-beds will be taken up and completed in the spring.

The total amount expended to date of force-main and filter-beds is \$3189.85.

The total amount expended to date for everything connected with the sewer is \$50085.98.

JOHN FRANKLIN,
Engineer

HIGHWAY DEPARTMENT

HIGHWAY CONDITIONS

For a detailed report of the Highway Department see the report of the Superintendent. Our highway conditions show marked improvement since last report. The policy of preserving our macadam roads with Tarvia B and sand shows evidence of success, for our macadam roads are now in better condition than ever. The unit cost of the work done, the only measure of efficiency, will compare favorably with any municipal or contract work of similar grade. Our new work this year was the macadamizing of part of Bartlet, Morton and Elm Streets, and with the cooperation of the County and State, part of Lowell Street. We have also rebuilt part of High Street, Walnut Avenue, Harding and Haverhill Streets. Because of the damage by storms much money has been spent in the West district. Your Board believe it good policy when reconstructing our streets to lay permanent drains and build sufficient catch-basins to take care of the water. Much has been done along that line this year. Your Board would suggest the reconstruction of

Central, School, Brook and a larger part of Lowell Streets this year. The County's and the State's cooperation on Lowell Street we believe is assured. Much complaint is manifest of our slippery roads, and is receiving due consideration by your Board. Permanency and economy recommend the tarvia-bound macadam in preference to the gravel and water-bound macadam.

The County has reported and given the Town plans of their re-survey of North Main Street, Brook, High, Elm Streets and Walnut Avenue. Your Board would recommend the appropriation of \$25,000 for highways and the inclusion of the railroad franchise and excise tax. Your Board would recommend a special appropriation of \$5000 for Lowell Street to be spent with equal amounts by the County and State.

THE DUST-LAYING PROBLEM

On account of our present method of preserving the surface of our macadam roads and laying the dust on our gravel roads, an assessment on the abutters becomes unjust. Those who live along the macadam roads are occasionally exempt from the dust tax because they do not require treatment every year, while the gravel roads require treatment every year and therefore are taxed every year. In a very few years, at the present rate of reconstruction of our roads, the Center will be all macadam and then it would probably be wise to discontinue the tax, if not at present. The cost of preserving the road surface and the dust-laying is so involved in road construction and maintenance that it is impossible to separate the cost, and this gives another reason for discontinuing the tax.

SIDEWALKS

Much improvement has been made on sidewalks this year in cinder and stonedust walks, repairing concrete, and new concrete. New walks have been built on Abbot Street, Shawsheen Road (with curbing), and on Lowell Street. Much work has been done on sidewalks and drains on Haverhill Street. Your Board would recommend the appropriation of \$1500 for sidewalks, \$500 to be used under the Betterment Act.

COMPARATIVE TABLE OF EXPENDITURE AND REVENUE

FOR 1912-1915

	1912		1913		1914		1915	
	Revenue	Expend.	Revenue	Expend.	Revenue	Expend.	Revenue	Expend.
†Highways & Bridges	\$ 4000 00	\$ 7136 57	\$ 8265 25	\$14127 85	\$25000 00	\$17113 08	\$25385 00 ^a	\$14711 51
Drains				2235 36				1388 98
Sale of Stone	158 60							
Street Sprinkling	1198 88		1151 42	984 44	1466 03	808 64	1453 74	1068 46
Oil for streets				1284 85				
Railroad Taxes	4155 23		4659 56		4609 78		4023 35	
Construction	3000 00	4753 96	2954 69	1417 82		13643 55 [*]		19000 55
Andover Street	3000 00	2992 26						
Salem Street	2000 00	1999 76						
Elm Square	587 57	608 09						
Horses and drivers	2295 00	2295 00	2790 55					
Salary	1200 00	1200 00	850 00					
Miscellaneous			450 00		719 49		5333 83 ^b	
Sidewalks	1500 00	1649 65	2000 00	1507 04	1500 00	1648 41	2000 00	2410 59
Oil wagon, tools, etc.			1500 00	1409 30		221 37		
Snow	1000 00	781 24	455 25	420 59	2500 00	2684 37 [†]	1500 00	1497 21 ^c
Sidewalk revenue	143 65				174 14		466 67	
Totals	\$24248 93	\$23416 53	\$25077 27	\$23385 25	\$35969 44	\$36119 74	\$40162 59	\$40077 30
Balances		832 40		1692 02	150 30 ^o			85 29

* This includes drains, catchbasins, and bridges. † Spent by G. W. Wood and gives an overdraft of \$184.37 on Snow. ^oOverdraft caused by Snow.

The expenditure for only roadway work in 1913 was \$20,050.32, in 1914, was \$31,786.64, an increase of about 58%.

† This item should be changed to maintenance to comply with the accounting required by the State Laws and the accounting of the Board of Public Works.

^a Includes transfer from Snow.

^b Includes County and State (\$4000).

^c Includes transfer to Highway.

PARK AND PLAYSTEAD

The upkeep of the Park and Playstead has been the chief expense this year. We made an agreement with the A.V.I.S. to take care of the Boulders for the sum of \$150, believing that their interest and experience in such work would produce the best results. Because of complaints of damage by water caused by the insufficient capacity of the drain-pipes from the Playstead to the brook, your Board caused another line of pipes to be laid parallel with the old. Your Board would recommend that the sum of \$1500 be appropriated for Parks and Playstead.

THOMAS E. RHODES
BARNETT ROGERS
ANDREW McTERNEN
WILLIS B. HODGKINS
LEWIS T. HARDY

Board of Public Works

REDEMPTION OF LOANS

DR.

To Redeem Water Loans	No. 1	due	1920	
	No. 2	"	1922	
	No. 3	"	1923	
	No. 4	"	1925	
	No. 5	"	1928	
Balance, Jan. 1, 1915				\$29984 13
Appropriation, March 1, 1915				750 00
Interest on Investments				1312 16
				<hr/>
				\$32046 29

CR.

Water Loan Funds Deposited—				
Andover Savings Bank				\$ 8010 07
Andover National Bank				24036 22
				<hr/>
				\$32046 29

DR.

To Redeem Sewer Loans	\$10000	due	1919	
	30000	"	1928	
Balance, Jan. 1, 1915				\$13172 97
Appropriation, March 1, 1915				1000 00
Assessments, 1915				408 63
Interest on Deposits				517 68
				<hr/>
				\$15099 28

CR.

Sewer Loan Funds Deposited—				
Andover National Bank				\$15099 28

THOMAS E. RHODES
LEWIS T. HARDY
WILLIS B. HODGKINS
BARNETT ROGERS
ANDREW McTERNEN

Sinking Fund Commissioners

Examined, Feb. 10, 1916

NESBIT G. GLEASON

D. R. LAWSON

W. H. COLEMAN

Auditors

SUPERINTENDENT'S REPORT

To the Board of Public Works.

GENTLEMEN: I herewith present my report for the year Ending December 31, 1915, which is the twenty-seventh of the Water Department and the nineteenth of the Sewer System; and the third annual report of Highways and Parks under your supervision.

WATER DEPARTMENT

The water-mains have been extended this year on Rocky Hill Road a distance of 1460 feet of 6-inch C. I. pipe, at a cost of \$1492.03. There were 165 yards of ledge on this job, making the cost a small margin over \$1.00 a foot. The next extension was 192 feet of 8-inch C. I. pipe on Main Street. This was somewhat ledges, the job costing \$204.60. A 6-inch C. I. pipe-line from Haverhill Street on High Street, to the residence of John A. Driscoll, a distance of 541 feet, was laid during December at a cost of \$615.30; making a total of 2193 feet of new water main laid in 1915.

On Chestnut Street a new 8-inch C. I. main has been laid from Central Street to Main Street, a distance of 685 feet. On account of the service on this street it was necessary to lay at a depth of about seven feet. This job when completed cost \$895.89. I hope money enough may be raised, to go with money we already have, so this may be continued to Whittier Street this spring.

Water mains were also laid for Mr. W. M. Wood and Phillips Academy; these were paid for by applicants. Cost, plus 10%.

These additions make the present plant, December 31, 1915, as follows:

Total length of main pipe in service	50.06 miles
Number of hydrants	369
Number of public buildings	15
Number of fountains	8
Number of standpipes	10
Number of faucets at parks	4
Number of private hydrants	34

SERVICE PIPES

There were received 60 applications for new service pipes, and these were all laid. The number of feet laid by the Town from main to street lines was 1387 feet, and by the property owners 2295 feet. This year there have been four relaid, making a total on December 31, 1915, of 623 cement-lined pipes, and 804 lead-lined; 38 all other kinds, including solid lead, tarred, etc., making 1465 in number or 114,966 feet in length.

METERS

During the year 1915, 67 new meters were set, making a total of 1262 now in use. I would recommend meters be set on the remaining services not at present metered.

PUMPING PLANTS

The High Service Station on Bancroft Road has this year received a general overhauling after seven years' work. The pumping has increased at this station during the last year.

Haggett's Pond Station where all water is first pumped from, has been running during 1915, 365 days—90 days on oil and 275 days on steam plant. Running time according to engineer's sheets, 3509 hours, 27 minutes. During this time about 240 million gallons of water were pumped. Number of gallons pumped by oil, 59,853,135; by steam, 180,746,043; or a daily average of 659,175 gallons. The cost of pumping was practically the same as last year, only a slight increase of about \$30.00, while according to records there were about 6 million more gallons pumped.

The pond has remained higher this year than for a longwhile on account of summer rains. The ground purchased by the Town from the Boston Ice Company, which borders the pond, has been cleaned up a little and some wood that was dead has been cut and sold.

The steam plant is having a general overhauling by the makers this winter, so that by spring everything at the Haggett's Pond Station will be in first-class condition.

WATER RATES

Water rates have increased this year over last year; they are now on a year's footing. The report this year shows four full quarters of receipts, amounting to \$22,451.01, which will show in Table.

GENERAL REPORT

Our workshop on Lewis Street has had a new roof put on by Andrew Wilson. A new barn has been built for the storage of Highway and Waterworks horses and several vehicles. Cost of same will be reported under Highway Department. The buildings at Haggett's Pond are in a very good condition; also the building on Bancroft Road. Both fences around each reservoir need painting during 1916. Building at filter-beds in good condition.

The barn formerly used as a stable by the Water Department has been turned into a storehouse for Akron fittings, coke, gates, gate-boxes, hydrants, soil-pipe, etc.

The property owned by the Town, under the care of the Board of Public Works, is all in good condition.

SEWER DEPARTMENT

This past year has been a busy one in the Sewer Department. On house connection work we have had 52 applications, and all accepted and 49 laid, making a total of 707 house connections at present.

During the year extensions were made on Elm Street from Whittier Street to Washington Avenue, a distance of about 990 feet. Four manholes were necessary, as well as a 5-inch under-drain. The cost of this job, including all labor and material and 105 yards ledge work, was \$1520.22.

We next went to Avon Street from Chestnut to Summer, about 800 feet; we also had three manholes and a 5-inch under-drain. This cost \$792.71.

Summer Street, from Avon to Pine Street, a distance of about 500 feet, also had to be underdrained and two manholes built. This was a very wet job and we had considerable trouble. Cost of this work, including all labor and material, \$625.15.

FRANK L. COLE, *Supt.*

RECEIPTS

BILLS	Mainte- nance	Service Pipe	Pipe Distri- bution	Totals
Various parties, service pipe and meters		\$1529 24		\$1529 24
Various parties, repairs and labor .	\$241 01	890 25	1716 29	1847 55
Totals	\$241 01	\$2419 49	\$1716 29	\$4376 79
Water rates				22451 01
Credits paid Town Treasurer				\$26827 80
Water Rates		\$22451 01		
Pipe Account		4376 79		
		\$26827 80		\$26827 80

Approved

NESBIT G. GLEASON W. H. COLEMAN D. R. LAWSON	}	Auditors
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EXPENDITURES

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT				
	Mainte- nance	Construc- tion	Total	Mainte- nance	Construc- tion	House Conne- ction	Abbott Village Sewer	Total	Grand Total
Boston & Maine, freight	\$ 136 10	\$ 232 41	\$ 368 51		\$ 57 37	\$ 36 60	\$ 90 21	\$ 184 18	\$ 552 69
New England Tel. & Tel. Co.	93 44		93 44						93 44
Payrolls	4877 29	3403 70	8280 99	\$ 239 54	1818 86	1388 63	1954 12	5401 15	13682 14
Walter I. Morse, supplies and tools	107 61	44 96	152 57	157 58	6 65	8 25	26 05	198 53	351 10
Carfares	111 21		111 21						111 21
Andover Press	143 30	25 50	168 80				6 38	6 38	175 18
A. W. Chesterton & Co., supplies	31 16	21 04	52 20	30 20				30 20	82 40
Smith & Manning, supplies	2 20		2 20		67 83	39 83	5 48	113 14	115 34
Portland Stoneware Co., pipe					540 24	235 52		775 76	775 76
Buchan & McNally	17 07	3 84	20 91	12 06	114 00			12 06	32 97
Merrimac Iron Foundry, manhole covers								114 00	114 00
F. W. Foster & Sons Co.				38 50				38 50	38 50
Ira Buxton, labor and supplies	1 40		1 40	14 60		25		14 85	16 25
Philip Hardy, stock and labor	115 00	18 33	133 33		197 75	31 57	4000 00	4229 32	4362 65
Myerscough & Buchan	86 99	17 06	104 03	17 25	29 00			46 25	150 30
Smart & Flagg	6 00		6 00	20 00				20 00	26 00
Hardy & Cole	30 83	29 30	60 13	8 73	85 65	60 05	5 24	159 67	219 80
John C. Collins		18 00	18 00	1 50	145 39		83 04	229 93	247 93
John Franklin					100 00		3330 23	3430 23	3430 23
Frank L. Holt				900 00				900 00	900 00
Harold L. Bond, dynamite and caps	3 75		3 75	11 20				11 20	14 95
Andover National Bank				5 00			1 30	5 00	5 00
Barnett Rogers, recording deeds				65				1 95	1 95
Burnham Garage, new car	11 50		11 50	200 00				200 00	211 50
Tyer Rubber Co., rubber gloves	1 20		1 20		1 63	6 51		8 14	9 34
George Brown					29 80			29 80	29 80
Anderson & Bowman	12 01	8 00	20 01		9 25			9 25	29 26

North Andover Board Public Works			3 50		3 50		11 00			11 00		14 50
Waldo Bros.	.	.					12 00			12 00		12 00
Old Colony Trust Co., bonds	.	.					30 00			165 00		165 00
J. H. Campion Co., grain, oil, supplies	.						55			55		167 34
Boston Pipe and Fitting Co.	.	152 79	14 00		166 79				135 00	211 43		372 20
W. A. Snow Iron Co.	.		160 77		160 77					9 00		18 00
American Express Co.	.		9 00		9 00					1 19		12 55
Cenedella & Co., contract	.	8 67	2 69		11 36				39290 00	39290 00		39290 00
Boston Transcript, advertising	.								35 40	35 40		35 40
Hildreth & Rogers, advertising	.								12 86	12 86		12 86
Telegram Publishing Co., advertising	.								17 50	17 50		17 50
Sun and American, advertising	.								17 50	17 50		17 50
George L. Gauge, pipe	.								23 92	31 98		31 98
Highway Department, stone and pipe	.								39 68	39 68		39 68
William J. Cronin	.								50 00	50 00		50 00
M. T. Stevens	.								62 40	62 40		62 40
Scott Shattuck, teaming	.		12 63		12 63				29 00	29 00		41 63
Standard C. I. Pipe Co., iron pipe	.		1508 91		1508 91				680 79	680 79		2189 70
Eben Simmons, land damage	.								20 00	20 00		20 00
Olaf Benson, land damage	.								50 00	50 00		50 00
Colver J. Stone	.								9 00	9 00		9 00
National Lead Co., lead	.		180 63		180 63				110 88	110 88		291 51
Rensselaer Valve Co.	.		93 00		93 00							93 00
Morrison & O'Connell	.	41 95	3 50		45 45							45 45
Builders Iron Foundry, specials	.	26 78	56 74		83 52							83 52
Jenkins Bros., valves	.		32 42		32 42							32 42
Lead Lined Iron Pipe Co., service pipe	.	86 78	1427 25		1514 03							1514 03
Wolworth Mfg. Co.	.		83 31		83 31							83 31
Wright's Express	.	2 05	80		2 85							2 85
H. Mueller Mfg. Co.	.		443 05		443 05							443 05
Pittsburg Meter Co., meters	.		243 40		243 40							243 40
Neptune Meter Co., meters and parts	.	21 80	565 98		578 78							587 78
National Meter Co., repairs	.	12 99			12 99							12 99
Chadwick Boston Lead	.		79 33		79 33							79 33
Anglo Saxon Supply Co.	.		23 22		23 22							23 22

NAMES	WATER DEPARTMENT				SEWER DEPARTMENT					Grand Total
	Mainte- nance	Construc- tion	Total		Mainte- nance	Construc- tion	House Conneec- tion	Abbot Village Sewer	Total	
Fred Smith		20 00	20 00							20 00
Boston Coupling Co.		18 00	18 00							18 00
Waterworks Equipment Co.		129 80	200 40							200 40
Postoffice, envelopes	70 60		282 32							282 32
John A. Riley, care of hall	282 32		5 00							5 00
Frank Hardy, brush	5 00		3 50							3 50
W. S. Darly & Co.	3 50		3 90							3 90
Frank E. Dodge	3 90		10 80							10 80
James S. May	10 80		2 30							2 30
W. H. Coleman & Co.	2 30		14 01							14 01
R. F. Morse	14 01	60	60							60
Bride Grimes Co.	55 92		55 92							55 92
Joseph Chambers, teaming	45 00		45 00							45 00
Sumner & Gerald	81 00		81 00							81 00
Andover Coal Co., coal	57 50		57 50							57 50
Cross Coal Co., soft coal	1170 39		1170 39							1170 30
H. S. Macomber & Co., oil	308 78		308 78							308 78
Vacuum Oil Co.	188 69		188 69							188 69
Jenny Mfg. Co., fuel oil	152 97		152 97							152 97
George E. Winslow	1 90		1 90							1 90
Ashton Valve Co.	19 17		19 17							19 17
A. M. Colby	56 40		56 40							56 40
T. F. Morrissey	29 40		29 40							29 40
Rumney Pump Co.	6 60		6 60							6 60
Deane Steam Pump Co.	294 82		294 82							294 82
Joseph Bordelais	21 60		21 60							21 60
Curry Bros. Supply Co.	54 02		54 02							54 02
Frank E. Davis	25 92		25 92							25 92
Samuel Smith Machine Co.	17 89		17 89							17 89

M. T. Walsh	80	1 00	80
J. E. Whiting	1 00	32 00	1 00
T. A. Holt Co.	32 00	20 26	32 00
Thomson Meter Co., repairs	20 26	13 63	20 26
Hersey Meter Co., repairs	13 63	65 64	13 63
Ludlow Valve Co., hydrant and valve	65 64	274 09	65 64
Harry M. Eames, hay	274 09	35 62	274 09
Robert A. Watson, hay	35 62	63 00	35 62
Andrew Wilson, New roof	63 00	314 93	63 00
Gulf Refining Co., fuel oil	314 93	2 32	314 93
Lawrence Gas Co.	2 32	4 55	2 32
H. J. Stanchfield, supplies	4 55	18 10	4 55
Buchan & Francis	18 10	97 21	18 10
August Misty, supplies	97 21	3 50	97 21
Joseph Breck & Sons	3 50	33 47	3 50
Merrimack Boiler Works	33 47	2 50	33 47
Dr. P. J. Look	2 50	106 71	2 50
Western Electric Co.	106 71	2 80	106 71
Herbert Marr	2 80	1 48	2 80
W. B. Douglas	1 48	3 15	1 48
H. B. McArdle	3 15	1 61	3 15
Revere Rubber Co., packing	1 61	2 75	1 61
George B. Graffs Co.	2 75		2 75
	\$10223 99	\$ 8934 07	\$19158 05
	\$1656 81	\$ 3265 03	\$2028 83
	\$50085 98	\$57036 65	\$76194 71

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1915	Total Cost of Construction
Office Fixtures				\$ 561 75
Telemeters				1311 63
Telephones				184 77
Teams				583 65
Pipe Distribution	\$ 4695 12	\$1716 29	\$ 2978 83	\$248476 10
Service Pipe	4175 99	2419 49	1756 50	23954 66
Water and Land Drainage				6687 23
Suction Pipe				1309 46
Reservoirs				16985 82
Coalshed				806 97
Grading Land				1739 12
Workshop				1271 88
Building Pumping Station				9610 14
Pumping-plants				44401 83
Construction Expenses				9406 21
Tools	62 96		62 96	3154 79
Maintenance	10223 99	241 01	9982 98	
Totals	\$19158 06	\$4376 79	\$14781 27	\$370446 01

SUMMARY COST OF CONSTRUCTION

SEWER DEPARTMENT

Sewer mains in feet	27309.10		
Number of filter-beds		23	
Number of sludge-beds		3	
Cost to the abutters			\$103876 98
Cost to the Town			34625 66
Totals	27309.10	26	\$138502 64

COMPARATIVE STATISTICS

January 1, 1916

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced \$	2999 99	1776 21	.....	.....	.....	6 months	46	..	16	.....
1890		3399 93	1806 93	52 85	27 97	82 81	24,911,445	309	80	163	20.50
1891		3491 22	2185 83	40 77	25 53	68 42	64,595,597	462	122	165	21.50
1892		3792 56	2408 2	36 42	23 13	73 46	85,618,190	542	171	174	22.37
1893		4514 47	3354 04	38 31	28 47	71 27	104,123,285	601	204	178	23.50
1894		4380 13	3151 33	37 32	26 87	71 81	117,847,305	654	237	178	23.53
1895		4627 53	2557 61	37 47	20 71	78 79	117,354,950	706	278	180	24.00
1896		4336 58	2383 71	37 67	20 71	69 61	123,476,542	752	326	184	24.12
1897		3662 43	2196 31	32 33	19 38	68 78	115,094,527	789	486	184	24.16
1898		4471 04	2656 42	31 21	19 24	65 45	113,287,775	819	571	193	24.91
1899		4915 23	3158 50	33 07	21 25	71 78	143,260,253	845	616	194	25.12
1900		7955 34	3430 35	45 44	19 59	51 00	148,618,935	876	641	196	25.83
1901		5787 44	3035 47	40 59	25 63	100 01	175,062,920	897	670	196	25.84
1902		7389 44	2922 36	55 52	21 96	86 89	118,031,451	934	701	205	29.69
1903		6378 96	3004 34	44 25	20 84	81 98	133,085,521	958	722	219	30.17
1904		7228 82	3426 98	44 03	20 87	75 60	144,164,563	981	757	221	30.49
1905		8121 39	3054 09	45 39	17 29	76 48	164,150,879	1013	791	223	30.95
1906		8112 47	4825 63	33 34	19 94	75 48	176,717,579	1036	813	224	31.03
1907		7419 65	3750 29	39 52	19 97	79 41	242,025,757	1060	848	227	31.35
1908		7499 95	3967 72	36 96	19 55	81 16	187,750,372	1101	884	257	35.22
1909		8378 32	4234 61	36 50	18 50	76 93	202,885,685	1147	926	273	38.07
1910		7974 79	3584 62	39 21	17 62	91 03	228,939,882	1187	977	290	40.81
1911		8117 57	3583 45	39 58	17 48	95 99	203,401,371	1245	1023	321	44.34
1912		8412 89	4471 18	36 84	19 58	96 58	205,097,460	1304	1081	344	46.99
1913		10306 80	4434 65	43 86	18 86	83 47	228,344,927	1353	1146	351	47.70
1914		9982 98	4464 45	42 49	18 55	93 32	234,973,550	1405	1195	364	49.64
1915							†240,599,178	1465	1262	369	50.08

*Regulations and rates changed.

†No allowance for slippage.

SUPERINTENDENT OF HIGHWAYS AND PARKS

To the Board of Public Works.

GENTLEMEN: I herewith submit the Third Annual Report of the Highway and Park Department, for the year ending December 31, 1914.

During the early months of the year, ashes were hauled to High Street from Haverhill Street to the North Andover line. Ashes were also placed on Haverhill Street, a distance of about 500 feet. Haverhill Street, from the residence of John Traynor to River Bridge, was graded up with gravel from Mrs. Flint's pit on Lowell Street; this, after being wet and well rolled, made a very good street. Many other small jobs were also attended to, such as blanketing streets, oiling, cleaning gutters, and raking stones. The first job of any account done this year was Bartlet Street. This was started on June 2 and completed June 28. Morton Street, between Bartlet and Main Streets, was next done, as well as between Main and School Streets. Catchbasins and pipes were put in where necessary on both of these streets. On July 7, we started Elm Street, near the residence of Harry M. Eames, and continued work here until the last of July, when we were obliged to stop work, near the residence of O. P. Chase, for a period of four weeks. During this time we had to repair washouts in several different parts of the town, caused by the heavy showers during July. Among these places were Hardy's Hill in West Andover; Chandler Road near the River Road, by residence of Mr. George Disbrow; Walnut Avenue was also repaired; High Street Hill, and many small places where only a load or two were needed. We finally started on Elm Street again and continued to the Square, both sides, also done the Square; set curbing on both sides of Elm Street about 450 feet. On this street a 10-inch drain was started at the culvert near the residence of Mrs. Moses Foster, and carried to Wolcott Avenue; here two catchbasins were built and a 12-inch pipe run to catchbasin at the head of Maple Avenue, then followed

the drain on Maple Avenue to the river. One catchbasin was built on the corner by George F. Abbott's to catch the Summer Street water, and also across Elm Street to Maple Avenue. All corners on the approaching streets were curbed. The material taken from this street was used on the resurfacing of part of Maple Avenue, Summer Street, and some on Washington Avenue and Walnut Avenue. Elm Street was completed on September 25, except sidewalk work, which will be reported under Sidewalks.

On September 28, Lowell Street was started, under plans and specifications of the Massachusetts Highway Commission for a 18-foot Tarvia-bound road. There were 5600 square yards done at a cost of \$6010. Of this amount, \$4000 was paid by the County and State, the road being done under the Betterment Act; that is, the Town, County and State each sharing one-third of the cost. This price included grading, labor, teams, in fact, everything done. This was completed November 29. We then started on Harding Street, between the bridge and Main Street. Here both gutters were paved, gravel placed on roadbed, well rolled, and sidewalks repaired. The cost will appear in another column for all these jobs, as well as many others. When Harding Street was completed, work practically was completed for the year.

BALLARDVALE DISTRICT

Work done by Mr. John A. Haggerty with fire horses and help obtained in Ballardvale. Scraped Abbot Street from Porter Road to the residence of Mr. T. D. Thomson. Laid a 10-inch corrugated pipe across the road entering Pomp's Pond icehouses. Cleaned gutters and graveled Porter Road to the Spring Grove Road. Scraped Woburn Street to the Wilmington line, Ballardvale road from Woburn Street to the Boston turnpike, and made repairs on the Abbott Hill. Scraped Andover Street and dragged same, from W. B. Hodgkins' to Woburn Street, and made repairs on High Street. River Street was scraped to the icehouses and gutters cleaned; also made repairs on Hill near Wilmington line. Graveled Andover Street from River Street to High Street. Small improvements were made on Marland, Center, Oak,

Tewksbury and Chester Streets. Put in 10-inch corrugated pipe on Oak Street, 32 feet across road. Clark Road and Dascomb Road were scraped and cleaned up, as well as Osgood Street to residence of Mr. Way; Lovejoy Road to residence of Joseph Lovejoy. There were two catchbasins built at corner of Church Street and Andover Street, to relieve the water passing across Andover Street; these were both connected to a drain which ran along the street to the catchbasin belonging to the Boston and Maine Railroad. Permission was granted us to enter this, which saved us piping clear to the river. This relieved the greater part of the trouble at this corner.

OILING AND SPRINKLING

During the summer there was spent on oiling streets \$1068.46. Sprinkling was nothing. Now under oiling and sprinkling of course there is to be considered the blanket we use over our tarvia roads to prevent dust from blowing. This has been charged up to Maintenance of Roads. I wish more oiling might be done, as I believe that when a gravel road, properly shaped up, wet and well rolled, then left to dry out a day or two, if oiled directly after this process, it will keep its shape and at a less cost of maintenance, for a good while, especially Andover Street from Woburn clear around to residence of Joseph Stanley where tarvia starts. This would preserve the road and would save on repairs greatly. Summer Street, which has just been graded with material from Elm Street, should be just the same, and so on.

SURFACE DRAINAGE

Drain and catchbasins have been laid on Elm Street, Morton Street, Andover Street in Ballardvale, and in fact lots of stone culverts which have been filled up are being removed and large pipes are being placed in their places. This drainage is something that I am putting a good deal of thought and study into, as all streets before being built new must be drained properly or the street will be washed away. Of course the more catchbasins put in, the greater the cost of maintenance will be, as these must all be cleaned out several times a year.

GRAVEL ROADS

These are all right where the travel is light, but on any of our main streets it is impossible with the heavy travel of today, to keep them in repair and safe. And gravel fit for our side streets is almost impossible to find. So about the only thing to do is to build water-bound roads on our side streets, and tarvia or something else on all our main thoroughfares. These tarvia roads should be built, and that is what we are doing wherever possible. These should be built so as to have a passage on both sides for the horse-drawn vehicles.

GUTTERS

Gutters are continually washing out and need cleaning or oiling to kill weeds two or three times a year. I hope to repair gutters as fast as possible with a paving, or fill well with crushed stone and then run Tarvia X into same. This we tried on Walnut Avenue, and heavy rains came before the tarvia was cold, but the material still is in place. This I believe is as good as anything for the money.

RESURFACING

Most streets will only receive enough blanketing in 1916 to prevent dust blowing; instead of using one-half gallon to the yard, one-quarter gallon will be used, reducing the cost of the work from $5\frac{1}{2}c$ to about $3c$. Of course, some streets will need the regular amount, but this work will have to be done at least once in two or three years on the outside streets only.

SIDEWALKS

This work has been going on at all times of year. Ashes here and there, with a little dust put over same, makes a good walk for side streets, and we are doing this a great deal during the early months of the year; hauling the ashes, then in spring we cover with the dust. Tar sidewalks have been repaired on Bardet Street, Main Street, Salem Street, Elm Street. New walks under the Betterment Act were built on Abbot Street, Shawsheen Road, and Lowell Street. The repairing and new

work was done by W. F. Duffee of Haverhill under a contract and a seven-year guarantee. Curbing was also set on Shawsheen Road, one-half of same being paid by the Smith & Dove Co.

There were three cars of dust put on sidewalks in Ballardvale during 1915. There was also an addition to the curbing on the east side of Andover Street, 275 feet. I am in hopes to do more of the cement work during the coming year.

The expenditures on repairs and new work by streets is as follows:

Argilla Road	\$ 45 96
Abbot Street	149 08
Andover Street (Does not include Haggerty's work)	255 36
Bartlet Street, resurfacing and new work	3317 03
Burnham Road, ashes, wetting and rolling	217 71
Brook Street, gravel	7 40
Chandler Road, washout	735 50
Chestnut Street	127 59
Corbett Street, washout	5 92
Central Street	32 14
Elm Street	9292 16
Florence Street	23 94
High Street	1502 68
Haverhill Street	394 57
Harding Street, above bridge	46 02
Harding Street, below bridge	374 59
Hardy's Hill, West Andover	191 99
Lowell Street	6164 33
Locke Street	47 07
Lewis Street	141 61
Lincoln Street	17 46
Main Street	684 78
Maple Avenue	168 99
Morton Street	928 38
Phillips Street	32 41
Punchard Avenue	49 04
Porter Road	336 52

Poor Street	36 45
Pine Street	90 44
Park Street	147 20
Prospect Hill Road	25 77
River Road	482 25
Salem Street	688 86
Summer Street	522 23
School Street	68 72
Whittier Street	59 60
Wolcott Avenue	65 94
Walnut Avenue	955 20
Washington Avenue	203 04
Catchbasin	195 55
Ballardvale District, all work from Jan. 1 to Jan. 1	\$1756 02

Many small jobs were done of which no account was kept, on many other streets where only a load or two of material was needed, and on work done around the shop, barn, etc., where no foreman or superintendent was present, no exact time could be kept, only on payrolls, which show elsewhere.

RECOMMENDATIONS

Central Street to be rebuilt from Essex Street.

(1) As road is at present there are 12,000 square yards. Estimated cost, \$8400.

(2) If a 18-foot roadway is built, except first 200 feet, 9756 yards. Estimated cost, \$6829.

(3) Full width past T. A. Holt's, 22-foot to South Church, 18-foot to bridge, 10,236 yards. Estimated cost, \$7165.

(4) Full width past T. A. Holt's, 22-foot to Phillips Street, 18-foot to bridge, 10,902 yards. Estimated cost, \$7631.

There are two corners at Brook Street, two at Chestnut Street, \$100.00, four at School Street, as well as drains and catchbasins to be built — \$500.00. The estimate of this street is \$7680.00.

SCHOOL STREET.—A 16-foot tarvia-bound road which will leave ample room on either side for horse-drawn vehicles, from Central to Main Street. Curb corners where not already done. Build a large drain starting at Locke or Abbot Street and running down to the brook between the cemeteries on lower end of School Street. Catchbasins at Abbot Street, Locke Street, and also connect culvert which crosses Mr. Cann's and Miss Kimball's property, relieving that a great deal; from here down a larger pipe would be necessary.

Estimated cost of street, and drains, catchbasins, etc, \$6000.

BROOK STREET.—I would recommend curbing both sides of the street and building a gravel or water-bound road, so that Essex Street may be blanketed before coming apart; then the heavy teaming may be done on Brook Street, and Essex Street may be used for lighter-drawn vehicles. This gravel road on Brook Street may be well treated with oil, and I think will make an excellent road for heavy teaming and will also be dust-proof. \$1600.

Abbot Street, Lupine Road, and the roads in Abbott Village also need a great deal of attention. Abbott Village will of course be dug up more this coming summer on account of house connections to be made with the sewer; after this there will need be many repairs in this section.

West District needs roads scraped and shaped up, as now the water all runs in the center of the roads. The trouble in the outlying districts is that the gutters have been and are now, more or less blocked up.

Lowell Street needs to be continued from Station 28. I hope a separate appropriation may be obtained for this road, to go with the Massachusetts Highway Commission and County, as this is being done under the Betterment Act, each bearing one-third of the cost, and the more the town gives, the more help we get from the County and State. The State has promised, and we hope that a separate amount may be set aside for this work each year, and the State and County will meet the amount we appropriate. So this year I hope the amount will be \$5000. This will only be spent providing they equal it.

Curbing needs to be re-set on a great many corners in town, and this is being done as fast as possible.

I would recommend \$1000 be appropriated to go with what we have on hand, to replace the 4-inch water main on Chestnut Street from Main to Whittier Street, for a 8-inch C. I. main and make necessary connections; and install new hydrants with a 6-inch opening.

Sidewalk complaints are coming in every day, but when the frost is coming out of the ground, I or no one else can help the muddy streets. Now there is a Betterment Act under which the people may apply for a tar sidewalk, curbing, or asphalt walk, and any time before September 1st the Board are glad to receive same, and due care is always used in this expenditure.

PARK DEPARTMENT WORK.—I would recommend that a baseball diamond be laid out in Ballardvale, as a great deal of enjoyment is obtained in this game down there, and at present we spend about \$100 a year there and then there is nothing but holes and weeds. I would recommend the making of a baseball diamond on the play grounds at Ballardvale.

PARK DEPARTMENT

General work is all that has taken place during the last year, except placing an additional pipe across Mr. Lombard's land to relieve the water which flows to the main brook. I would say the amount spent in the Park Department, including work on Ballardvale Playstead, was \$1279.23, leaving a balance of \$220.77 on hand.

HIGHWAY EXPENDITURES, 1915

NAMES	Maintenance		Construction	Drains	Snow	Side-walks	New Barn	Total
	\$	cts						
Winchester Rock Co., stone	61	12	923 83			\$ 233 47		\$ 1218 24
Anderson & Bowman	55	75	38 50				3 50	97 75
Morrison & O'Connell	178	50	20 60		20 50	25 00	4 10	248 70
Tyer Rubber Co., ashes	11	85				14 70		26 55
Payrolls, labor and teams	6253	22	6314 42	313 70	555 92	339 65	418 02	14194 93
Fred Gould	70	44			15 75	46 70		132 89
Samuel Rawdsen, labor	7	80						7 80
John C. Collins, stone	576	69	4982 07					5558 76
New England Tel. & Tel. Co.	6	76	10 29					17 05
William J. Doherty	4	16						4 16
John Clinton	19	20						19 20
John Baker, Jr. (oil for street)	157	50						157 50
Dr. J. F. Winchester	8	75						8 75
Barrett Mfg. Co. (tarvia)	3777	04	4666 50					8443 54
Myerscough & Buchan	167	38	109 33					276 71
John H. Campion	227	45	45 90					273 35
Frank L. Cole	17	37						17 37
Philip Hardy, stock and labor	57	75	132 67	29 75	11 00		121 45	341 62
Edward S. Hardy	2	25	3 75			7 95		13 25
Smith & Dove, twine and ashes	7	65						19 35
T. F. Morrissey & Son	26	02						26 02
Harold L. Bond	1	65						1 65
School Department		60						60
New England Culvert Co.	323	36						323 36
Hardy & Cole, stock and labor	189	60	167 65		7 68		761 59	1126 52
Walter I. Morse	115	08	4 45	16 63	12 40		18 92	167 48
W. F. Duffee						1355 40		1355 40
Clinton Foundry Co.	38	00						38 00
Poor & Riley	2	33			1 25			3 58
Boston & Maine	123	07	695 51	33 98		142 07		994 63
Buffalo Steam Roller Co.	62	70	13 71					76 41
Ira Buxton		90						90
Jerry Golden, labor	64	65			9 00			73 65
Universal Road Machine Co.	25	76						25 76

[illegible]

Names		Main- tenance	Con- struction	Drains	Snow	Side- walks	New Barn	Total
A. M. Colby	.	10 80	21 00					31 80
Bride Grimes & Co., supplies	.		4 06					4 06
Dove Machine Co., supplies	.	4 50	1 93					6 43
John McCarthy	.		136 60					136 60
C. A. Claflin & Co.	.		22 50					22 50
Treat Hardware Co.	.		2 59					2 59
Robinson Hardware Co.	.		8 13					8 13
Phillips Academy	.		25 00					25 00
F. F. McDonnell & Co., (iron horses)	.		30 00					30 00
H. E. Fletcher & Co. (curbing)	.		325 23					325 23
John W. Henderson	.	43 55						43 55
Andover Waterworks	.	22 40						22 40
American Express	.	60						60
John H. McDonald	.	32 00						32 00
M. T. Stevens Co., ashes	.							30
Evelyn Hardy, sand	.	14 55						14 55
George E. Flint, gravel	.	12 20						12 20
Merrimack Foundry Co.	.	14 25						14 25
George W. Disbrow	.	83 89						83 89
John P. Wyllie	.	5 00						5 00
Pike Bros., sand	.	5 40						5 40
Olaf Benson	.	1 00						1 00
George Brown	.	34 50						34 50
E. Pariseau, teaming	.	38 28						38 28
Hood Farm, teaming and labor	.	58 75						58 75
Dr. A. W. Baker	.	4 00						4 00
Highway Department	.				385 00			385 00
		\$15779 97	\$19000 55	\$1388 98	\$1497 21	\$2410 59	\$1476 28	\$41553 58

FINANCIAL STATEMENT

Appropriation, March 1, 1915—

Highway Department	\$25000 00
Railway Franchise Tax	2021 75
Railway Excise Tax	2001 60
Sprinkling	1453 74
Massachusetts Highway Commission	2000 00
County Commission	2000 00
Credits (various accounts)	1333 83
Transferred from Snow	385 00
	<hr/> \$36195 92

Expenditure—

Maintenance Highways	\$14711 51	
Construction Highway	19000 55	
Drains	1388 98	
Oiling	1068 46	
Balance, Jan. 1, 1916	26 42	
	<hr/>	<hr/>
	\$36195 92	\$36195 92

SIDEWALKS

SIDEWALKS

Appropriation, March 1, 1915	\$2000 00
Credits	466 67
Expenditures	\$2410 59
Balance, Jan. 1, 1916	56 08
	<hr/>
	\$2466 67

SNOW

Appropriation, March 1, 1915	\$1500 00
Expenditure	\$1497 21
Balance	2 79
	<hr/>
	\$1500 00

PARK DEPARTMENT

Appropriation, March 1, 1915		\$1500 00
Expenditure	\$1279 23	
Balance, Jan. 1, 1916	220 77	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

HOVEY'S WATER EXTENSION

Appropriation, March 1, 1915		\$1500 00
Expenditure	\$1492 03	
Balance	7 97	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

NEW BARN

Appropriation, March 1, 1915		\$1500 00
Expenditure	\$1476 28	
Balance, Jan. 1, 1916	23 72	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

FRANK L. COLE, *Supt.*

TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1916

ANDOVER, MASS.
THE ANDOVER PRESS
1917

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TOWN OFFICERS, 1916

Selectmen, Assessors and Overseers of the Poor

HARRY M. EAMES, <i>Chairman</i>	Term expires	1917
CHARLES BOWMAN	" "	1918
WALTER S. DONALD, <i>Secretary</i>	" "	1919

Town Clerk

GEORGE A. HIGGINS

Tax Collector

JOHN W. BELL

Town Treasurer

GEORGE A. HIGGINS

School Committee

ALFRED E. STEARNS	Term expires	1917
GEORGE A. CHRISTIE	" "	1917
LILIAN BREWSTER	" "	1917
BARTLETT H. HAYES	" "	1918
HENRY A. BODWELL	" "	1918
JOHN C. ANGUS	" "	1918
MARY B. SMITH	" "	1919
FREDERIC G. MOORE	" "	1919
PHILIP F. RIPLEY	" "	1919

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

THOMAS E. RHODES	Term expires	1917
WILLIS B. HODGKINS	" "	1918
ANDREW McTERNEN	" "	1918
BARNETT ROGERS	" "	1919
CHARLES B. BALDWIN	" "	1919

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE,

Engineers of Fire Department

CHARLES S. BUCHAN, *Chief* WALTER I. MORSE, *Clerk*
ALLAN SIMPSON

Board of Health

BANCROFT T. HAYNES	Term expires	1917
FRANKLIN H. STACEY	" "	1918
CHARLES E. ABBOTT, M.D.	" "	1919

Chief of Police

FRANK M. SMITH

Constables

GEORGE W. MEARS	Term expires	1917
FRANK M. SMITH	" "	1917
WILLIAM L. FRYE	" "	1917
CHESTER H. LAWRENCE	" "	1917

Trustees of Memorial Hall Library

NATHAN C. HAMBLIN	Term expires	1917
GEORGE F. SMITH	" "	1922
ALFRED E. STEARNS	" "	1923
BURTON S. FLAGG	" "	1917
E. KENDALL JENKINS	" "	1918
REV. WILLIAM H. RYDER	" "	1917
FREDERIC S. BOUTWELL	" "	1920

Trustees of Punchard Free School — Terms expire 1919

SAMUEL H. BOUTWELL	HARRY H. NOYES
MYRON E. GUTTERSON	HARRY M. EAMES
FRANK T. CARLTON	

Auditors

JOHN S. ROBERTSON WALTER H. COLEMAN
NESBIT G. GLEASON

Trustees of Cornell Fund

JOHN C. ANGUS	Term expires	1917
ALLAN SIMPSON	" "	1919
DR. WILLIAM D. WALKER	" "	1918

Superintendent of Moth Department

JOHN H. PLAYDON

Tree Warden

JOHN H. PLAYDON

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

GEORGE W. FOSTER	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

TOWN MEETINGS

Annual Town Meeting, March 6, 1916

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the sixth day of March, 1916, at 6 o'clock A.M., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, five Trustees of the Punchard Free School for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, seven Trustees of Spring Grove Cemetery for three years, Fence Viewers, Pound Keeper, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public

Dump, Retirement of Veterans, Redemption of Water, Sewer, and Andover Loan Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will accept the provisions of Sections 1, 2, and 4, and the eight following sections of Chapter 655, Acts of 1913, and appoint a committee of five (5) to be known as the Committee on Building Laws, said committee to submit a printed report to the voters on or before March 1, 1917. That the sum of \$25 be appropriated for the expenses of said committee, upon petition of the Selectmen.

Article 5.—To see if the town will appropriate money for a fire alarm box to be located on South Main Street, near Gould Road, on petition of Harry W. Hayward and others.

Article 6.—To see if the town will appropriate the sum of two thousand (\$2000) dollars for the extension of the macadam road on Salem Street and Jenkins Road, on petition of Everett W. Ricker and others.

Article 7.—To see if the town will appropriate \$3500 to macadam River Road from Martin Lydon's to Fish Brook and repair the River Road to the Tewksbury line, on petition of Samuel H. Boutwell and others.

Article 8.—To see if the town will appropriate \$1000 to repair Bailey Road to Tewksbury line, Pleasant Street to Boutwell Road, and Boutwell Road to River Road, on petition of James E. Dodge and others.

Article 9.—To see if the town will appropriate the sum of \$5000 to macadam Lowell Street, on petition of the Board of Public Works.

Article 10.—To hear the report of the Special Committee, appointed March, 1915, relative to the erection of a new high school building, and to act upon its recommendations as follows:— That the town shall vote to raise and appropriate the sum of one hundred thousand dollars (\$100,000) for the purpose

of building and equipping a new high school building to be located on land in front of the present Punchard School building; to make any changes deemed necessary to preserve and use the present Punchard School building; and to make any necessary changes in the Central Heating Plant and its connections.

That for the purpose of building and equipping said new high school building the Town Treasurer is hereby authorized to issue and sell bonds of the town to an amount not exceeding \$100,000, dated October 1, 1916, and payable \$5000 thereof on the first of October in each of the years 1917-1936 inclusive, bearing interest at a rate not exceeding 4 per cent per annum payable semi-annually. The said bonds shall be denominated on their face Andover High School Loan 1916.

That the Moderator appoint a committee of five in number to be known as the High School Building Committee, said committee to be authorized and instructed to obtain plans, make contracts, approve payments, and to do and act as may be necessary and proper to carry out all provisions of the foregoing vote.

Article 11.—To see if the town will appropriate a sum of money to extend the street lighting system up Prospect Hill Road, on petition of George M. Garland and others.

Article 12.—To see if the town will vote to change the light now at the foot of Bancroft Road and Main Street to pole on opposite side of Bancroft Road, also place a new light opposite pumping station on Bancroft Road, on petition of Fred E. Cheever and others.

Article 13.—To see if the town will vote to extend the water system on Bellevue Road from the Osgood Schoolhouse to the Boston & Maine track, a distance of about 2800 feet, on petition of Fred T. Harrington and others.

Article 14.—To see if the town will vote to accept the Boulders so-called, near the Boston & Maine station, as a part of the Park system of the Town of Andover.

Article 15.—To fix the pay of the firemen for the ensuing year.

Article 16.—To determine the method of collecting the taxes for the ensuing year.

Article 17.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18.—To determine what disposition shall be made of unexpended appropriations.

Article 19.—To act upon the report of the Town Officers.

Article 20.—To determine the amount of money to be raised by taxation the ensuing year.

Article 21.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock P.M.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by the By-Laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this nineteenth day of February, A.D. 1916.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

ANDOVER, MARCH 6, 1916

ESSEX, SS.

Pursuant to the foregoing warrant, I the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

ANNUAL TOWN MEETING, MARCH 6, 1916

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the town house in said Andover on Monday, the sixth day of March, 1916, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and after reading a part of the warrant it was

Voted, To dispense with the further reading of the warrant.

Voted, To take up Articles 1 and 2 together.

Voted, That the polls be closed at 2 o'clock p.m.

Took up Articles 1 and 2 and proceeded to vote for Town Officers and on the Liquor License Question by the Australian ballot system.

The ballot box was found to be empty and registered 0000. The polls opened at 6 o'clock a.m. and closed at 2 o'clock p.m., as voted. The total number of ballots cast was 1104, ninety-one (91) of which were female ballots for School Committee only.

The result of the balloting was as follows:—

MODERATOR—One year:

Alfred L. Ripley	848
Blanks	165

TOWN CLERK—One year:

George A. Higgins	851
Blanks	162

TOWN TREASURER—One year:

George A. Higgins	825
Blanks	188

SELECTMEN—Three years:

Louis G. Buck	288
Walter S. Donald	660
Blanks	65

ASSESSOR—Three years:

Louis G. Buck	273
Walter S. Donald	654
Blanks	86

COLLECTOR OF TAXES—One year:

John W. Bell	819
Blanks	194

SCHOOL COMMITTEE—Three years:

Frederic G. Moore	763
Thomas E. Rhodes	452
Philip F. Ripley	736
Mary Byers Smith	722
Blanks	639

TRUSTEES OF PUNCHARD FREE SCHOOL—Three years:

Samuel H. Boutwell	729
Frank T. Carlton	696
Harry M. Eames	720
Myron E. Gutterson	723
Harry H. Noyes	687
Blanks	1510

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION—

Three years:

Charles B. Baldwin	674
Edward W. Boutwell	256
Samuel P. Hulme	314
Barnett Rogers	470
Blanks	312

BOARD OF HEALTH—Three years:

Charles E. Abbott	766
Blanks	247

AUDITORS OF ACCOUNTS—One year:

Walter H. Coleman	481
Nesbit G. Gleason	568
Edmond E. Hammond	368
David R. Lawson	460
John S. Robertson	534
Blanks	628

CONSTABLES—One year:

Chester N. Lawrence	699
George W. Mears	671
Frank M. Smith	724
Blanks	945

TRUSTEE OF MEMORIAL HALL LIBRARY—Seven years:

Alfred E. Stearns	779
Blanks	234

TREE WARDEN—One year:

John H. Playdon	790
Blanks	223

Shall Licenses be granted for the sale of Intoxicating
Liquors in this town?

Yes	285
No	630
Blanks	98

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF PRECINCT CLERK

ANDOVER, MASS., MARCH 6, 1916

Polls open at 6 a.m. Ballot box registered 0000; ballot box registered when polls closed 1107; whole number of ballots received 1700; whole number of ballots cast 1104; number of regular ballots returned 687; number of female ballots received 200; number of female ballots returned 109.

Polls closed at 2 p.m.

DANIEL A. COLLINS,
Precinct Clerk

The Moderator declared:—

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Treasurer for one year.

Walter S. Donald elected Selectman for three years.

Walter S. Donald elected Assessor for three years.

John W. Bell elected Collector of Taxes for one year.

Frederic G. Moore elected School Committee for three years.

Philip F. Ripley elected School Committee for three years.

Mary Byers Smith elected School Committee for three years.

Samuel H. Boutwell elected Trustee of Punchard Free School for three years.

Frank T. Carlton elected Trustee of Punchard Free School for three years.

Harry M. Eames elected Trustee of Punchard Free School for three years.

Myron E. Gutterson elected Trustee of Punchard Free School for three years.

Harry H. Noyes elected Trustee of Punchard Free School for three years.

Charles B. Baldwin elected Board of Public Works and Sinking Fund Commission for three years.

Barnett Rogers elected Board of Public Works and Sinking Fund Commission for three years.

Charles E. Abbott elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

Nesbit G. Gleason elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Chester N. Lawrence elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Alfred E. Stearns elected Trustee of Memorial Hall Library for seven years.

John H. Playdon elected Tree Warden for one year.

Chose Trustee of Cornell Fund—Allan Simpson, for three years.

Chose Fence Viewers for one year—James Saunders, Raymond L. Buchan, George W. Mears.

Chose Trustees of Spring Grove Cemetery for three years—John L. Smith, Felix G. Haynes, Oliver W. Vennard, George D. Millett, John W. Bell, Daniel H. Poor, Walter I. Morse.

Chose Street Lighting Committee—Barnett Rogers, Walter H. Coleman, Colver J. Stone, Charles B. Baldwin, Henry J. Gardner.

And voted that Lighting Committee be authorized to make contract for Street Lighting for a term not exceeding three years.

Chose Finance Committee for one year (appointed by the Moderator)—George Abbot, Samuel H. Boutwell, John H. Campion, Walter M. Lamont, Henry W. Barnard, Chester W. Holland.

Town Pound—*Voted*, That Town Barn and Barnyard be the Town Pound and that the Superintendent of the Town Farm be the keeper.

Took up Article 3.

Voted, To appropriate the following stated sums of money:

Almshouse Expenses	\$ 4200 00
Repairs on Almshouse	450 00
Relief out of Almshouse	4300 00
Aiding Mothers with Dependent Children	500 00
<hr/>	
<i>Amount carried forward</i>	\$9450 00

<i>Amount brought forward</i>	\$9450 00
Board of Health	2000 00
Brush Fires	800 00
Fire Department, running expense and new hose	9200 00
Hay Scales	125 00
Highway Department, Snow, Sidewalks	28000 00
(Five hundred dollars to be spent under Betterment Act, but if no applications are received before Sept. 1, it shall be at the disposal of the Board of Public Works)	
Also Street Railway Tax and Street Sprinkling (amounting last year to \$5477.09)	
Insurance	950 00
Insurance under Workmen's Compensation Act	1600 00
Interest	13000 00
Memorial Hall Library	1800 00
Memorial Day	350 00
Post 99, G. A. R.	100 00
Miscellaneous	1700 00
Parks and Playsteads	1500 00
(The Board of Public Works be instructed to make investigation and report some feasible plan to care for surplus water in Rogers Brook, Playstead and Park)	
Police	4500 00
Printing and Stationery	1150 00
Public Dump	75 00
Retirement of Veterans, Acts 1912	300 00
Redemption of Water Bonds	11000 00
Redemption Andover Loan Act Bonds	5000 00
Redemption Abbott Village Sewer Bonds	4505 67
Schools	47000 00
Sewer Department	
Maintenance	1800 00
Sinking Funds	1000 00
Soldiers' Relief	900 00
<i>Amount carried forward</i>	<hr/> \$147805 67

<i>Amount brought forward</i>	\$147805 67
Spring Grove Cemetery	1000 00
(And receipts from sale of lots)	
State Aid	1500 00
Street Lighting	6500 00
Town Officers	6650 00
Town House	2000 00
Tree Warden and Gypsy and Browntail Moth Department	3500 00
Water Department	
Maintenance	11000 00
Construction	1500 00
Sinking Funds	750 00
Committee on Building Laws (Article 4)	25 00
Fire Alarm Box (Article 5)	350 00
Macadam—River Road (Article 7)	300 00
Macadam—Lowell Street (Article 9)	5000 00
	<hr/>
Total	\$187880 67
Estimated County Tax	16000 00
Estimated State Tax	23500 00
	<hr/>
	\$227380 67

Took up Article 4.

Voted, at 3.24 p.m., To accept the provisions of Section I, of Chapter 655 Acts of 1913, and to appoint a committee of five (5) to be known as the Committee on Building Laws, said Committee to submit a printed report to the voters on or before March 1, 1917. The Moderator appointed Charles U. Bell (Chairman), Frank A. Buttrick, Granville K. Cutler, Walter I. Morse, and E. Barton Chapin.

Took up Article 5.

Voted, at 3.25 p.m., That the sum of \$350 be appropriated for a Fire Alarm box to be located on South Main Street near Gould Road.

Took up Article 6.

Voted, at 3.27 p.m., To refer to the Board of Public Works.

Took up Article 7.

Voted, at 3.50 p.m., That the sum of \$300 be appropriated to make such temporary repairs as may seem necessary on River Road.

Took up Article 8.

Voted, at 3.52 p.m., To refer to the Board of Public Works.

Took up Article 9.

Voted at 3.54 p.m., That the town appropriate the sum of \$5000.00, the amount to be used not to exceed \$5000.00, or such an amount as shall be contributed severally by the State and County.

Took up Article 10.

Voted, at 4.15 p.m., That the town vote to raise and appropriate the sum of one hundred thousand dollars (\$100,000.00) for the purpose of building and equipping a new high school building to be located on land in front of the present Punchard School building, to make any changes deemed necessary to preserve and use the present Punchard School building, and to make any necessary changes in the Central Heating Plant and its connections.

That for the purpose of building and equipping said new high school building the Town Treasurer is hereby authorized to issue and sell bonds of the town to an amount not exceeding \$100,000 dated October 1, 1916, and payable \$5000 thereof on the first of October in each of the years 1917-1936 inclusive, bearing interest at a rate not exceeding four (4) per cent per annum payable semi-annually. The said bonds shall be denominated on their face Andover High School Loan 1916.

That the Moderator appoint a committee of five in number to be known as the High School Building Committee, said Committee to be authorized and instructed to obtain plans, make contracts, approve payments, and to do and act as may be necessary and proper to carry out all provisions of the foregoing vote.

The vote stood, Yea 298; Nay 0. The Moderator appointed the following committee: Burton S. Flagg, Henry A. Bodwell, John Alden, Harry M. Eames, and Edward V. French.

It was also voted, that the committee, to whom is entrusted the construction of the new high school building, may defer action, if upon consideration of plans and figures they deem it wise to do so.

Took up Article 11.

Voted, at 4.17 p.m., To refer to the Lighting Committee.

Took up Article 12.

Voted, at 4.18 p.m., To refer to the Lighting Committee.

Took up Article 13.

Voted, at 4.28 p.m., That the Board of Public Works be directed to petition the Legislature for authority to issue \$10,000 of water bonds, the same to be available from time to time for extension of main service lines of the Andover Water System.

Took up Article 14.

Voted, at 4.45 p.m., To accept the Boulders so-called, near the Boston & Maine station, as a part of the Park system of the town of Andover and that the selectmen be asked to inquire into the title and perfect it in the town's interest as far as possible.

Took up Article 15.

Voted, at 4.46 p.m., That the pay of the firemen be \$75 per year.

Took up Article 16.

Voted, at 4.47 p.m., That the taxes be collected by the Collector and that he receive one per cent of all moneys collected and that interest be charged at the rate of six per cent per annum from October 15th on all taxes remaining unpaid after November 1st.

Took up Article 17.

Voted, at 4.48 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1st, 1916, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 18.

Voted, at 4.50 p.m., That all unexpended balances be turned into the treasury, with the exception of \$602.42 of the water construction appropriation of 1915.

Took up Article 19.

Voted, at 4.51 p.m., That the Report of the Town Officers be accepted.

Took up Article 20.

Voted, at 4.52 p.m., To raise by taxation \$117,000 and also an amount sufficient to meet the State and County taxes.

Took up Article 21.

Voted, at 5.20 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officer's return on the same, also a true record of the doings of the meeting.

ATTEST,

GEORGE A. HIGGINS,

Town Clerk

SPECIAL TOWN MEETING

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:—

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the twelfth day of June, 1916, at 7.45 o'clock p.m., to act on the following articles:

Article 1.—To see if the town will vote to rescind that part of the vote of Article 1 of the warrant of the special Town Meeting held March 31, 1915, whereby the owners of estates situated in the territory embraced by a sewerage system, and benefited thereby, as shown on a plan of McClintock & Woodfall, dated June 8, 1898, on the west side of the Shawsheen River between Central and Stevens Streets, were assessed 75% of the cost, the Town to pay 25% of the cost.

Article 2.—To see if the Town will vote to adopt as the method of assessment in the case of estates embraced in the portion of the sewerage system, and benefited thereby, shown on a plan of McClintock & Woodfall, dated June 8, 1898, on the west side of the Shawsheen River between Central and Stevens Streets, the following rate, as recommended by the Board of Public Works in their report of 1900: viz., Fifty (50) cents to be assessed on each foot of lot frontage, of estates on any street or way wherever a sewer is constructed, five (5) mills per square foot upon the area of said estates, no estate to be assessed to a depth exceeding 120 feet from the front of same. Upon all corner lots assessments for lot frontage shall be levied as before stated, upon the whole frontage of such estates which abut on the street where sewer is first laid, upon the other street or streets or ways upon which such corner lots or estates abut, an exemption, as may be determined by the Board of Public Works, of not exceeding

sixty (60) feet of the frontage assessment shall be made on such streets or ways; and the assessments before provided shall be levied on all the remainder of the frontage on such streets or ways.

Article 3.—To see if the town will vote to issue Water Loan Bonds or notes to the amount of \$10,000 for the purpose of extending the main service lines of its water system as authorized by Chapter 262, Acts of 1916, on petition of the Board of Public Works.

Article 4.—To see if the Town will vote to transfer to the Highway Department \$2500.00—the unexpended balance of \$5000.00 appropriated at the March meeting, for use on Lowell Street, said transfer being necessary owing to the unusual amount required in removing snow and sanding walks during the past winter, on petition of the Board of Public Works.

Article 5.—To see if the Town will appropriate the sum of \$2000 for curbing on the west side of North Main Street from Stimson's Bridge to Poor Street, on petition of the Board of Public Works.

Article 6.—To see if the Town will vote to authorize the Moderator to fill vacancies, caused by death, resignation, or inability to serve in any committees appointed by him at any legal town meeting.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least, before the time of said meeting, as directed by the By-Laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this twenty-seventh day of May, A.D. 1916.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

ANDOVER, JUNE 12, 1916

ESSEX, SS.

Pursuant to the foregoing warrant, I the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the town house in said Andover on Monday, the twelfth day of June, 1916, at 7.45 o'clock in the evening, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and read the warrant.

Took up Article 1.

Voted, at 8.39 p.m. That that part of the vote of Article 1 of the warrant of the Special Town Meeting held March 31, 1915, whereby owners of estates situated in the territory embraced by a sewerage system, and benefited thereby, as shown on a plan of McClintock & Woodfall, dated June 8, 1898, on the west side of the Shawsheen River between Central and Stevens Streets, were assessed 75% of the cost, the town to pay 25% of the cost, be rescinded.

Took up Article 2.

Voted, at 8.43 p.m., That the town adopt as the method of assessment in the case of estates embraced in the portion of the sewerage system, and benefited thereby, shown on a plan of McClintock & Woodfall, dated June 8, 1898, on the west side of the Shawsheen River between Central and Stevens Streets,

the following rate, as recommended by the Board of Public Works in their report of 1900, viz:— Fifty (50) cents to be assessed on each foot of lot frontage, of estates on any street or way wherever a sewer is constructed, five (5) mills per square foot upon the area of said estates, no estate to be assessed to a depth exceeding 120 feet from the front of same. Upon all corner lots assessments for lot frontage shall be levied as before stated, upon the whole frontage of such estates which abut on the street where a sewer is first laid, upon the other street or streets or ways upon which such corner lots or estates abut, an exemption, as may be determined by the Board of Public Works, of not exceeding sixty (60) feet of the frontage assessment shall be made on such streets or ways, and the assessments before provided shall be levied on all the remainder of the frontage on such streets or ways.

Took up Article 3.

Voted, at 9.10 p.m., That by virtue and in pursuance of Chapter 262 of the Acts of 1916 and for the purposes mentioned therein, the Town Treasurer is hereby authorized to issue bonds or notes of the Town in the aggregate principal amount of \$10,000, to be dated July 1, 1916, and payable \$2000 thereof on the first of July in each of the years 1917 to 1921 inclusive, bearing interest at a rate not exceeding four per cent per annum payable semi-annually, January first and July first.

Said bonds or notes shall be denominated on the face thereof, "Andover Water Loan, Act of 1916", shall be signed by the Treasurer and countersigned by a majority of the Selectmen and be under the seal of the town. Principal and interest of said bonds or notes shall be payable in lawful money of the United States at such bank or trust company as the treasurer, with the approval of the Selectmen, shall elect. Said bonds or notes may be sold by said treasurer at public or private sale at not less than their par value, and shall be certified by a bank or trust company to be selected by the treasurer with the approval of the selectmen and contain such statements not inconsistent with this vote as the Town Treasurer with the approval of the Selectmen may determine. Yeas 116; Nays 0.

It was also voted that of the proceeds of the above bond sale the sum of \$5000 be at the disposal of the Board of Public Works for extensions of the water system and that balance remain in the town treasury until otherwise ordered by the town.

Took up Article 4.

Voted, at 9.22 p.m., That the Town transfer to the Highway Department \$2500.00—the unexpended balance of \$5000.00 appropriated at the March meeting, for use on Lowell Street, said transfer being necessary owing to the unusual amount required in removing snow and sanding walks during the past winter.

Took up Article 5.

Voted, at 9.31 p.m., That the Town appropriate the sum of \$2000.00 for curbing on the west side of North Main Street from Stimson's Bridge to Poor Street.

Took up Article 6.

Voted, at 9.33 p.m., That the Town authorize the Moderator to fill vacancies, caused by death, resignation, or inability to serve in any committees appointed by him at any legal town meeting.

Voted, at 9.34 p.m., That the meeting be dissolved.

The foregoing is a true copy of the warrant and of the Officer's return on the same, also a true record of the doings of the meeting.

ATTEST,

GEORGE A. HIGGINS,

Town Clerk

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 6, 1916	\$47000 00
Receipts from lunch counter	130 15
Receipts from tuition and carfares	1318 71
	<hr/>
	\$48448 86

Henry C. Sanborn, Superintendent	\$ 907 95
J Francis Allison, Superintendent	1390 47
Nathan C. Hamblin, teaching	1299 98
Eugene V. Lovely, teaching	1269 85
Mary Smith, teaching	834 88
Elizabeth M. Loftus, teaching	809 80
Lois J. Reed, teaching	619 67
Portia Clough, teaching	256 50
Ruth K. Whiting, teaching	393 30
Edna Simmons, teaching	276 30
James H. Morss, teaching	726 34
Eliza Spaulding, teaching	391 59
Clara Putnam, teaching	335 55
Etta M. Dodge, teaching	707 28
Eleanor N. Erving, teaching	649 80
Bernice B. Abbott, teaching	609 92
Bernice G. Stimpson, teaching	649 80
Cecelia A. Derrah, teaching	634 85
Carolyn A. Dean, teaching	513 00
Anne M. Downes, teaching	514 51
Margaret Kimball, teaching	120 81
Alice S. Coutts, teaching	277 62
Katherine T. Hannon, teaching	634 85

<i>Amount carried forward</i>	<hr/> \$14824 62
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Appropriation, March 6, 1916

\$48448 86

<i>Amount brought forward</i>	\$14824 62	.
Cynthia Flint, teaching	515 15	
Joanna P. Simmons, teaching	375 89	
Margaret S. Hoyt, teaching	378 35	
Olive Waterhouse, teaching	217 05	
Frances Hobbs, teaching	363 17	
Elizabeth Otte, teaching	236 85	
E. Mae Chase, teaching	609 92	
Florence I. Abbott, teaching	634 85	
Adele H. Duval, teaching	649 80	
Florance M. Prevost, teaching	649 80	
Helen E. Hartford, teaching	609 92	
Sara G. Cummings, teaching	534 91	
Lena M. Clark, teaching	378 35	
Florence Dunton, teaching	216 95	
Jessie P. Brown, teaching	584 84	
Grace Hill, teaching	784 72	
Blanche Spaulding, teaching	197 40	
Marion Boehm, teaching	197 40	
Rubina S. Copeland, teaching	634 85	
Edith H. Johnson, teaching	556 87	
Helen W. Battles, teaching	725 04	
Emma L. Ward, teaching	609 91	
Emily F. Carleton, teaching	674 88	
Mildred Morris, teaching	535 11	
Eilene Powers, teaching	534 91	
Helen K. Hardy, teaching	509 98	
Ella S. Morrill, teaching	619 67	
Hallie M. Stimpson, teaching	559 76	
Pauline A. Meyer, teaching	459 82	
Vivian Taylor, teaching	400 14	
Daisy I. Barrett, teaching	424 77	
Grace A. Woodburn, school nurse	50 00	
William B. Hazleton, teaching	500 08	
Georgianna Lovejoy, clerk	315 20	
<i>Amount carried forward</i>	<hr/> \$31070 93	

Appropriation, March 6, 1916

\$48448 86

<i>Amount brought forward</i>	\$31070 93
Clara Putnam, teaching	217 45
Margaret Kimball, teaching	96 67,
Irene Rutherford, teaching	35 00
Alice S. Coutts, teaching	25 62
Grace Thomas, teaching	20 00
Beatrice Trombley, teaching	10 00
Mrs. John Henderson, teaching	2 50
Annie McIntosh, matron	222 00
Herbert L. White, janitor	1199 64
George Spickler, janitor	96 00
William Flint, janitor	67 60
Alfred Melanson, janitor	28 40
James McGhie, janitor	420 00
William McEwan, janitor	180 00
Granville K. Cutler, janitor	180 00
John Crowley, janitor	180 00
James Eaton, janitor	360 00
County of Essex, tuition	129 57
Bay State St. Ry., transportation	1060 00
Boston & Maine R.R., transportation	793 25
Lawrence Gas Co., lighting	193 94
New England Tel. and Tel. Co.	83 73
Leonard Saunders, police duty	3 50
Andover Press, printing and supplies	338 55
James J. Abbott, wood	46 00
Walter I. Morse, supplies	91 15
E. E. Gray & Co., supplies	4 50
George E. Hussey, supplies	6 25
Buchan & McNally, supplies	339 61
W. H. Coleman & Co., supplies	4 60
John W. Richardson, labor and lumber	90 54
Neostyle Co., supplies	12 28
Ginn & Co., supplies	94 53
C. G. Merrill Co., supplies	55 46

Amount carried forward

\$37759 27

Appropriation, March 6, 1916

\$48448 86

<i>Amount brought forward</i>	\$37759 27
Milton Bradley Co., supplies	159 64
American Book Co., supplies	118 54
The Gregg Publishing Co., supplies	1 81
A. N. Palmer Co., supplies	51 68
J. L. Hammett Co., supplies	495 96
Edward E. Babb Co., supplies	701 02
Royal Typewriter Co., supplies	1 50
T. A. Holt Co., supplies	51 03
Hiller & Co., supplies	2 98
W. A. Allen, supplies	42 80
Tyer Rubber Co., supplies	13 25
City of Lowell, tuition	100 00
City of Lawrence, tuition	59 11
Charles H. Newton, transportation	432 00
Alvah Wright, transportation	540 00
George B. Petrie, labor	2 75
T. F. Morrissey & Son, team hire	73 00
J. F. Allison, sundries	34 44
James H. Green, team hire	75
H. R. Guild, sundries	7 50
James Melanson, labor	2 50
C. A. Hill & Co., supplies	25 45
Ira Buxton, supplies	22 45
S. K. Ames, supplies	12 80
John A. Jenkins, supplies	7 39
J. H. Campion & Co., supplies	134 70
Lawrence Lumber Co., wood	31 46
Chandler & Barber Co., supplies	40 78
Valpey Brothers, supplies	3 84
D. C. Heath & Co., supplies	65 72
DeLuxe Manufacturing Co., supplies	10 00
C. F. Emerson, teaming	58 25
American Express Co.	13 64
Wright's Express	14 55
<i>Amount carried forward</i>	41092 56

Appropriation, March 6, 1916

\$48448 86

<i>Amount brought forward</i>	\$41092 56
James Napier, truant officer	95 24
Allyn & Bacon, supplies	72 03
Robert Hutcheson, supplies	88
William Knipe & Co.	53 08
L. B. Philbrick, supplies	8 82
Andover Coal Co., coal	1464 86
Albert W. Lowe, supplies	3 75
Pyrene Manufacturing Co., supplies	7 20
W. H. Sylvester, tuning pianos	8 75
J. H. Playdon, plants	3 00
David Farquhar, supplies	71 25
Bausch Lomb Optical Co.	7 86
Remington Typewriter Co., supplies	1 17
Oliver Ditson Co., supplies	2 43
Smith & Manning, supplies	30
Yawman & Erbe Mfg. Co., supplies	1 12
Buchan & Francis, supplies	360 85
David M. May, police duty	1 50
West Disinfecting Co., supplies	50 00
E. V. Lovely, supplies	2 50
No-Dust Co., supplies	35 00
Charles P. Rea, labor	2 10
J. E. Whiting, repairing	75
James S. May, painting	328 25
Allen F. Abbott, labor and lumber	38 65
Edwin C. Moody, labor	2 00
Richard C. York, labor	6 00
Poor & Riley, supplies	1 10
James McGhie, labor	1 00
W. D. Walker, school physician	190 00
Cross Coal Co., coal	1634 42
Board of Public Works, water	264 61
Masury Young Co., supplies	46 40
Wakefield Chemical Co., supplies	12 00
<i>Amount carried forward</i>	\$45871 43

Appropriation, March 6, 1916

\$48448 86

<i>Amount brought forward</i>	\$45871 43
George E. Flint, wood	6 50
John Shea, supplies	4 20
Frank E. Dodge, labor	55 10
Gordon Cannon, diplomas	5 50
Mary L. Smith, carfares	20 00
Chester H. Lawrence, police duty	1 00
Knox & Morse Co., supplies	40
Daisy I. Barrett, carfares	1 90
Houghton Mifflin Co., supplies	149 75
Benjamin Sanborn & Co., supplies	55 02
Silver Burdett & Co., supplies	77 59
Philip L. Hardy, labor	15 00
E. McCabe & Co., supplies	1 15
Wright Stafford & Son, supplies	47 23
Henry C. Sanborn, supplies	31 65
A. S. Barnes Co., supplies	12 00
D. C. McIntosh, supplies	22 80
U. S. Geological Survey	3 00
L. E. Knott Co., supplies	37 13
George T. Johnson Co., supplies	25 74
Frank H. Harvey, supplies	7 87
Geo. H. Worcester & Co., supplies	29 50
Wright & Ditson, supplies	14 00
D. W. Pingree Co., wood	54 69
Mitchell & Woodbury Co., supplies	30 13
Cobb, Bates & Yerxa, supplies	66 75
Herbert L. White, labor	10 00
Arthur R. Lewis, school census	22 00
E. W. Pitman Co., labor and lumber	36 75
M. T. Walsh, labor	34 45
H. B. Abbott, labor	1 38
Alice V. Howell,	2 20
Chester D. Abbott, supplies	34 14
Lindsay & Young, supplies	8 68
<i>Amount carried forward</i>	\$46796 63

Appropriation March 6, 1916

\$48448 86

<i>Amount brought forward</i>	\$46796 63	
World Book Co., supplies	1 32	
Little Brown & Co., supplies	8 96	
Bride Grimes & Co., supplies	14 13	
Boston Music Co., supplies	10 00	
David O'Neill, supplies	9 60	
Sarah E. Riley, supplies	1 03	
Frances L. Otis	3 75	
Walter M. Lowney Co., supplies	17 64	
Manifold Supplies Co., supplies	7 00	
Atkinson Mentzer Co., supplies	2 78	
Charles A. Peck, supplies	1 00	
Underwood Typewriter Co., supplies	172 50	
H. J. Dalman Co., supplies	9 00	
Franklin H. Stacey, supplies	17 40	
L. A. Magoon, supplies	9 95	
C. H. Newton, labor	10 60	
Albert Scott, labor	4 50	
George Pillsbury, wood	15 00	
Benjamin Jaques, wood	4 00	
John Crowley, labor	2 00	
D. Donovan & Son, painting	19 20	
Bennett Brothers, supplies	297 50	
J. J. Daley, M.D.	10 00	
Charles E. Abbott, M.D.	10 00	
Edward C. Conroy, M.D.	10 00	
E. D. Lane, M.D.	10 00	
C. W. Scott, M.D.	10 00	
Percy J. Look, M.D.	10 00	
Total expenditures	\$47495 49	
Balance unexpended	953 37	
	<hr/>	
	\$48448 86	\$48448 86

NEW HIGH SCHOOL BUILDING

Received from sale of bonds		\$100000 00
Received from premium and interest		2283 11
Fisher, Ripley & LeBoutillier, architects	\$ 3559 50	
J. H. Mendell Co., on account contract	27385 30	
Hollis, French & Allen Hubbard, engineers	900 21	
Suffolk Engraving Co.	14 01	
Bride Grimes & Co.	800 00	
Old Colony Trust Co., preparation of bonds	145 00	
James S. May, labor	5 00	
<hr/>		
Total expenditures	32809 02	
Balance unexpended	69474 09	
<hr/>		
	\$102283 11	\$102283 11

TOWN OFFICERS

Appropriation, March 6, 1916		\$6650 00
George A. Higgins, treasurer	\$ 600 00	
George A. Higgins, town clerk and clerk of selectmen	900 00	
Walter S. Donald, selectman, assessor and overseer of the poor	600 00	
Charles Bowman, selectman, assessor and overseer of the poor	600 00	
Harry M. Eames, chairman of selectmen, assessors and overseers of the poor	700 00	
Walter H. Coleman, auditor	50 00	
Nesbit G. Gleason, auditor	50 00	
J. L. Robertson, auditor	41.67	
David R. Lawson, auditor	8 33	
Alfred L. Ripley, moderator	10 00	
Daniel J. Murphy, town counsel	360.75	
Registrars of voters	141 00	
Election officers, town meeting	75 00	
Election officers, Precinct 1, Presidential and State primaries	122 00	
Election officers, Precinct 2, Presidential and State primaries	80 00	
Election officers, Precinct 1, State election	75 00	
Election officers, Precinct 2, State election	40 00	
Timothy Mahoney, checker at town meet- ing	3 00	
C. A. Hill, checker at town meeting	3 00	
Dr. J. J. Daly, town physician	200 00	
John W. Bell, collector	1677 48	
Wm. C. Crowley, sealer of weights and measures	180 02	
Thomas F. Daily	5 00	
Total expenditure	\$6522 25	
Balance unexpended	127 75	
	<hr/> \$6650 00	<hr/> \$6650 00

TOWN HOUSE

Appropriation, March 6, 1916		\$2000 00
C. A. Hill & Co., labor and supplies	\$ 24 09	
J. W. Richardson, labor	7 75	
Ira Buxton, labor and supplies	9 00	
William Knipe & Co., labor and supplies	143 13	
M. Steinert & Sons, piano	300 00	
Lawrence Gas Co., gas and electricity	212 01	
Sadie W. Hobbs, laundry	10 49	
George W. Mears, janitor	720 00	
Anderson & Bowman, supplies	75	
Walter I. Morse, supplies	14 32	
T. A. Holt Co., supplies	10 35	
The O. L. Story Scenic Co., stage fixtures	92 00	
No Dust Co., supplies	8 75	
New England Tel. & Tel. Co.	1 20	
Leonard Saunders, police duty	15 50	
Buchan & Francis, supplies	2 80	
James S. May, painting	9 35	
Andover Coal Co., coal	297 50	
Charles P. Rea, moving ashes	1 95	
H. I. Dallman, supplies	8 00	
Frank H. Hardy, brush	6 50	
Benjamin Jaques, wood	6 00	
Crowley & Co., supplies	25	
Total expenditure	1901 69	
Balance unexpended	98 31	
	\$2000 00	\$2000 00

FIRE DEPARTMENT

Appropriation March 6, 1916	\$9200 00
Appropriation for new Fire Alarm Box	350 00
Received from earnings of horses	1012 66
Received for sale of manure	35 00
Received for rent of shed	50 00
Chemical, Gasoline & Oil, B. F. Dept.	52 00
Received from sale of old hose	4 50
	<hr/> 10704 16

RUNNING EXPENSES

Ivan S. Stedman, chauffeur	\$1079 00
Lester Hilton, chauffeur	1079 00
George Dick, chauffeur	975 00
John Collins, driver	819 00
John Haggerty, driver	819 00
Lawrence Gas Co., gas and electricity	74 89
E. W. Boutwell, hay	103 09
T. A. Holt Co., grain	62 71
American Express Co.	11 95
New England Tel. & Tel. Co.	57 95
J. H. Campion & Co., supplies	16 07
Myerscough & Buchan, repairs and supplies	61 84
Board of Public Works, water	55 97
Buchan & Francis, repairs and supplies	19 50
Buchan & McNally, labor and supplies	65 54
T. F. Morrissey & Son, supplies	22 53
Andover Steam Laundry	23 14
Tyer Rubber Co., supplies and blowing whistle	51 08
H. M. Eames, hay	158 30
Haynes & Juhlmann, grain	122 00
Wm. Knipe & Co., repairs	50
	<hr/>
<i>Amount carried forward</i>	\$5678 06

Appropriation and Receipts

\$10704 16

<i>Amount brought forward</i>	\$5678 06
John Haggerty, use of telephone	30 44
Smith & Manning, grain, etc.	45 35
Walter I. Morse, supplies	85 86
E. McCabe & Co., repairs	2 45
Dayton Fire Co., repairs on truck	12 82
Cross Coal Co., soft coal	12 00
Poor & Riley, grain	141 02
P. J. Daly, grain	36 20
Badger Fire Extinguisher Co.	2 45
Anderson & Bowman, shoeing and repairs	55 05
Morrison & O'Connell, shoeing and repairs	51 45
Ira Buxton, care steamer	100 00
Benjamin Jaques, wood	4 25
A. M. Colby, painting	18 50
Andover Coal Co., coal	322 09
Dr. J. F. Winchester, veterinary services	8 50
Crowley & Co., horse medicine	4 35
C. S. Buchan, chief engineer	150 00
Walter I. Morse, engineer	100 00
Allan Simpson, engineer	100 00
Payroll, Engine Co. No. 1	1106 25
Payroll, Engine Co. No. 2	635 00
H. S. Neal, janitor at B. Vale	100 00
James S. May, painting	160 00
H. Clark, repairs on engine house, B. Vale	58 27
G. S. Fuller, veterinary services	6 50
John W. Richardson, labor	10 23
Patrick Dowd, labor	12 00
H. N. Cutting	50
Gamewell Fire Alarm & Tel. Co., replacing	
Fire Alarm box burned out	150 00
Gamewell Fire Alarm & Tel. Co., supplies	55 90
Ira Buxton, labor and supplies	52 28
American La France Engine Co., supplies	26 74
<i>Amount carried forward</i>	\$9334 51

Appropriation and Receipts		\$10704 16
<i>Amount brought forward</i>	\$9334 51	
C. A. Hill & Co., supplies	2 52	
G. P. Anderson & Co., supplies	10 88	
S. T. Shattuck & Son, teaming	1 80	
B. & M. R. R., freight	7 00	
C. F. Emerson, carting	90	
Louis W. Bills, repairing fire whistle	19 00	
Berlin Spray Co., supplies	7 50	
McKinney Bros. & Co., horse	337 50	
J. E. Pitman, lumber and labor	20 85	
B. F. Mason, hay	43 13	
Walter Oldroyd, care horses	27 50	
D. A. Collins	2 40	
Total running expenses	9815 49	

HOSE

Boston Woven Hose Co., new hose	520 23
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NEW FIRE ALARM BOX

Gamewell Fire Alarm & Tel. Co., fire alarm box	125 00	
C. A. Hill & Co., wire, labor and supplies	168 30	
Ira Buxton, labor and supplies	68 43	
Total expenditure	10697 45	
Balance unexpended	6 71	
	\$10704 16	\$10704 16

BRUSH FIRES

Appropriation, March 6, 1916		\$800 00
N. T. Batchelder et al	\$ 32 00	
Ira Buxton et al	131 50	
C. S. Buchan et al	15 00	
John A. Riley et al	5 50	
H. S. Neal et al	9 00	
A. P. Wright et al	75 00	
S. T. Shattuck & Son	3 00	
H. E. Wilcox et al	5 00	
Leonard Saunders	3 00	
W. H. Coleman & Son, chemicals	19 61	
C. L. Bailey	13 00	
Fire Dept., gas, oil and chemicals	60 10	
	<hr/>	
Total expenditure	\$371 71	
Balance unexpended	428 29	
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	\$800 00	<hr/> \$800 00

POLICE

Appropriation, March 6, 1916		\$4500 00
Received from Cann Estate		63 00
Received from County for dogs		35 00
		<hr/>
		4598 00
Frank M. Smith, chief	\$1100 00	
James Napier, regular police	872 00	
Daniel P. Webster, regular police	872 00	
William L. Frye, regular police	872 00	
Ralph Bruce, police duty, B. Vale	72 00	
Thomas F. Dailey, police duty, B. Vale	72 00	
M. L. Harwood	2 00	
Allen F. Abbott	7 00	
George C. Dunnells, police duty	43 85	
Frank Carse, police duty	154 15	
David May, police duty	39 50	
Percy J. Look, medical services	1 50	
Myerscough & Buchan, auto service	42 25	
T. F. Morrissey & Son, auto and teams	52 00	
Smith & Manning, supplies	72	
New England Tel. & Tel. Co.	53 38	
Leonard Saunders, police duty	69 25	
Walter I. Morse, supplies	4 32	
Ira Buxton, supplies	2 70	
O. P. Chase, supplies	1 45	
Sign Company	1 00	
Morrison & O'Connell, supplies	75	
Andover Steam Laundry	1 04	
W. H. Coleman & Son, auto service	8 50	
F. E. Hersom	2 00	
F. L. Cole	2 25	
American Express Co.	16	
Elmer H. Shattuck, police duty	2 00	
	<hr/>	<hr/>
<i>Amount carried forward</i>	\$4351 77	4598 00

Appropriation and Receipts		\$4598 00
<i>Amount carried forward</i>	\$4351 77	
Chester H. Lawrence, police duty	12 00	
C. A. Hill & Co., supplies	2 10	
James W. Walker, police duty	29 85	
S. T. Shattuck & Son	5 00	
M. T. Welch, police duty	79 25	
Buchan & McNally	5 05	
William C. Brown, police duty	20 00	
J. A. Riley, police duty	2 00	
James H. Green, auto	1 75	
Charles F. Emerson, auto	4 50	
S. M. Spencer Mfg. Co.	1 00	
The Malcomb Co.	3 75	
Charles H. Newton, police duty	25 00	
Wm. L. Frye, carfare and expenses	9 00	
James Napier, food for prisoners	2 50	
Frank M. Smith, carfare and food for prisoners	32 47	
Total expenditure	4587 19	
Balance unexpended	10 81	
	<hr/>	<hr/>
	\$4598 00	\$4598 00

BOARD OF HEALTH

Appropriation, March 6, 1916		\$2000 00
Rutland State Sanitorium	\$ 146 86	
T. Currie	8 00	
Frank Carse	1 25	
J. F. Winchester	5 00	
Lucy B. Abbott	1 50	
Charles H. Newton, inspecting meat	177 00	
Percy J. Look	9 10	
T. F. Morrissey & Son	2 00	
William Knipe & Co.	28 00	
Bancroft T. Haynes, salary	50 00	
Bancroft T. Haynes, expenses	3 42	
Patrick M. Conway	1 00	
Dr. H. H. Nevers	27 00	
Andover Steam Laundry	1 91	
Charles H. Newton, inspector of animals	250 00	
Andover Press, printing	99 95	
Citizen Printing Co.	3 75	
Franklin H. Stacey, milk inspector	75 00	
Franklin H. Stacey, Board of Health	50 00	
Joseph P. Nolan, inspecting plumbing	98 00	
Mass. Asso. Board of Health	2 50	
Franklin H. Stacey, supplies	28 73	
John W. McDermott	50 00	
George W. Chandler	24 00	
S. T. Shattuck & Son	1 00	
Lawrence Tuberculosis Hospital	27 15	
Charles E. Abbott	58 00	
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Total expenditure	1230 02	
Balance unexpended	769 98	
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	\$2000 00	\$2000 00

PRINTING AND STATIONERY

Appropriation, March 6, 1916		\$1150 00
Carter Ink Co., ink	\$ 1 25	
Hobbs and Warren, supplies	30 62	
Andover Press, printing and supplies	764 05	
Burroughs Adding Machine Co., supplies	18 85	
P. B. Murphy, printing	3 75	
Henry W. Meek, printing	2 57	
A. W. Brownell, supplies	7 50	
John H. McDonald, envelopes	138 34	
H. M. Meserve, supplies	4 55	
Wakefield Daily Item, printing	75	
Auto List Pub. Co., auto lists	53 00	
Review and Record Co.	5 00	
Total expenditure	\$1030 23	
Balance unexpended	119 77	
	\$1150 00	\$1150 00

SUPPRESSION OF BROWNTAIL AND GYPSY MOTHS

Appropriation, March 6, 1916		\$3250 00
Private work		1652 45
Sale of lead, etc.		45 25
		<hr/>
		\$4947 70
Edward Berry, labor	\$575 26	
Harry Hayward, labor	172 19	
John Stewart, labor	236 15	
Jesse Hamilton, labor	241 45	
William Hatch, labor	295 08	
Joseph Dumont, labor	6 75	
Bert Estey, labor	6 75	
Herbert Rose, labor	34 04	
J. Howard Baker, labor	76 23	
Pat Tucker, labor	81 57	
A. Clement, labor	12 10	
Timothy Donovan, labor	39 66	
George Moriarty, labor	28 69	
Dollar Tetreau, labor	31 21	
Hugh McGovern, labor	30 94	
Lester Blair, labor	45 56	
Richard Stack, labor	33 43	
John Stack, labor	2 50	
Charles Shattuck, labor	50 34	
Frank Carse, labor	84	
Leonard York, labor	27 00	
R. York, labor	37 62	
Martin Doherty, labor	45 86	
R. Kibbee, labor	4 38	
	<hr/>	
<i>Amount carried forward</i>	\$2115 60	

Appropriation, and Receipts

\$4947 70

<i>Amount brought forward</i>	2115 60
J. White, labor	2 50
Joe Love, labor	5 06
Thomas Bollie, labor	2 81
Augustus Johnson, labor	54 00
William Ryan, labor	29 54
Frank Spencer, labor	9 00
Hosea Marco, labor	17 43
F. MacDonald, labor	45 00
Joseph Peters, labor	37 97
Michael Shea, labor	6 75
Guy Webster, labor	17 00
Austin Riley, labor	20 25
Dominick Palosky, labor	5 06
T. Davis, labor	55 00
Bert Morrill, labor	119 46
Maurice Jackson, labor	2 25
L. Driscoll, labor	9 56
F. Keefe, labor	111 93
Patrick Conway, labor	21 87
R. Baker, labor	50
S. Jacobs, labor	2 97
Ralph Berry, labor	15 75
George Finickam, labor	20 25
Richard Sherry, labor	81 87
Harold Larkin, labor	92 18
F. Keefe, labor	28 87
J. Ingalls, labor	5 94
Mr. Cohan	12 50
S. T. Shattuck & Son, teaming and storage	247 77
Ira Buxton, repairs and supplies	25 95
W. H. Coleman & Co., supplies	62 09
American Express Co.	3 29
Buchan & McNally, supplies	1 43
Andover Press, printing	65
<i>Amount carried forward</i>	<hr/> \$3289 05

Appropriation and Receipts		\$4947 70	
<i>Amount brought forward</i>	\$3289 05		
Martin Doherty, labor	39 50		
Anderson & Bowman, repairs	1 25		
Freeman Abbott, hauling sprayer	290 50		
Walter I. Morse, supplies	45 96		
Thos. F. Morrissey & Son, team	1 50		
The Grasseli Chemical Co., lead	45 25		
Morrison & O'Connell, repairs	1 25		
Fire Department, chemicals	3 50		
J. H. Playdon, use of team	24 00		
J. H. Playdon, labor	201 00		
State Forestry Dept., tools and arsenate of lead	820 20		
	<hr/>		
Total expenditure	4763 96		
Balance unexpended	183 74		
	<hr/>		
	\$4947 70	\$4947 70	

TREE WARDEN

Appropriation, March 6, 1916		\$250 00
Ira Buxton, sharpening saws	1 95	
A. P. Wright, labor	2 00	
Walter I. Morse, supplies	9 20	
Follansbee Nursery, trees	74 75	
J. H. Playdon, Salary 1915-16	100 00	
T. F. Morrissey & Son	1 00	
	<hr/>	
Total expenditure	188 90	
Balance unexpended	61 10	
	<hr/>	
	\$250 00	\$250 00

SPRING GROVE CEMETERY

Appropriation, March 6, 1916	\$1000 00
Received from sale of lots	545 80

\$1545 80

Frederick Wiss, labor	\$ 473 46
Horace Hale Smith, plans	15 00
T. F. Morrissey & Son, teams	3 50
Anderson & Bowman, labor	7 60
Charles F. Emerson, labor and team	6 00
Oliver W. Vennard	10 13
Andover Press, printing	18 00
E. F. Conkey, team and labor	2 50
J. H. Playdon, plants and shrubs	17 25
Smith & Manning, supplies	1 50
Charles E. Shorten, labor	182 74
Christopher Shorten, labor	179 45
Alexander Clement, labor	58 47
Estate O. W. Vennard	251 10
Arthur Herbert, labor	6 50
George Finickam, labor	13 50
Dan Barbarian, plowing	54 90
Walter I. Morse, supplies	74 39
James Abbott, teams and labor	36 00
Charles Roundhead, labor	3 50
Walter Shorten, labor	17 50
A. M. Colby, signs	2 50
William McNeal, labor	8 00
Buchan & McNally, supplies	20 00
S. T. Shattuck & Son	24 00
Fire Department, use of horses	11 20

<i>Amount carried forward</i>	\$1498 69
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Appropriation and Receipts		\$1545 80
<i>Amount brought forward</i>	\$1498 69	
F. H. Foster	4 00	
Colver J. Stone, deeds for lots	11 25	
Everett Lundgren	20 00	
	<hr/>	
Total expenditure	\$1533 94	
Balance unexpended	11 86	
	<hr/>	
	\$1545 80	<hr/>
		\$1545 80

PUBLIC DUMP

Appropriation, March 6, 1916		\$75 00
Olof Benson, care dump	\$75 00	
Total expenditure	<u>\$75 00</u>	<u>\$75 00</u>

HAY SCALES

Appropriation, March 6, 1916		\$125 00
Gray & Kendall, repairs	\$ 6 02	
Ira Buxton, weigher	100 00	
Total expenditure	<u>106 02</u>	
Balance unexpended	18 98	
	<u>\$125 00</u>	<u>\$125 00</u>

INSURANCE

Appropriation, March 6, 1916		\$ 950 00
For Workmen's Compensation		1600 00
Dividends		196 46
Transferred from Miscellaneous		135 00
Smart & Flagg, Agents	\$2881 46	
	<hr/>	<hr/>
	\$2881 46	\$2881 46

STREET LIGHTING

Appropriation, March 6, 1916		\$6500 00
Lawrence Gas Co.	\$6164 25	
Balance unexpended	335 75	
	<hr/>	<hr/>
	\$6500 00	\$6500 00

RETIREMENT OF VETERANS

Appropriation March 6, 1916		\$300 00
Paid under Chap. 447, Acts 1912	\$300 00	
	<hr/>	<hr/>
	\$300 00	\$300 00

G. A. R. POST 99

Appropriation, Chap. 62 Acts 1913		\$100 00
Moses L. Farnham, Quartermaster	\$100 00	
	<hr/>	<hr/>
	\$100 00	\$100 00

MEMORIAL DAY

Appropriation March 6, 1916		\$350 00
Moses L. Farnham, Quartermaster	\$350 00	
	<hr/>	<hr/>
Total expenditure	\$350 00	\$350 00

MEMORIAL HALL LIBRARY

Appropriation March 6, 1916		\$1800 00
F. S. Boutwell, Treasurer Memorial Hall Library	\$1800 00	
	<hr/>	<hr/>
Total expenditure	\$1800 00	\$1800 00

COUNTY TAX

Andover's proportion of County Tax		14374 46
Paid David I. Robinson, County Treas.	\$14374 46	
	<hr/>	<hr/>
	\$14374 46	\$14374 46

STATE TAX

Andover's proportion of State and Highway Tax		\$18533 44
Paid Charles L. Burrill, State Treas.	\$18533 44	
	<hr/>	<hr/>
	\$18533 44	\$18533 44

DOG TAX

Received from County Treas.		\$596 44
Paid F. S. Boutwell, Treas. Memorial Hall	\$596 44	
	<hr/>	<hr/>
	\$596 44	\$596 44

NOTES GIVEN

Mar. 9, Andover National Bank, Note No. 31	\$10000 00
Mar. 9, Andover National Bank, Note No. 32	10000 00
Mar. 9, Andover National Bank, Note No. 33	10000 00
Mar. 9, Andover National Bank, Note No. 34	10000 00
Mar. 9, Andover National Bank, Note No. 35	5000 00
Mar. 9, Andover National Bank, Note No. 36	5000 00
Mar. 9, Andover National Bank, Note No. 37	15000 00
Mar. 9, Andover National Bank, Note No. 38	15000 00
	<hr/> \$80000 00

NOTES PAID

Nov. 11, Andover National Bank, Note No. 31	\$10000 00
Nov. 11, Andover National Bank, Note No. 32	10000 00
Nov. 17, Andover National Bank, Note No. 33	10000 00
Nov. 17, Andover National Bank, Note No. 34	10000 00
Dec. 8, Andover National Bank, Note No. 35	5000 00
Dec. 8, Andover National Bank, Note No. 36	5000 00
Dec. 8, Andover National Bank, Note No. 37	15000 00
Dec. 8, Andover National Bank, Note No. 38	15000 00
Total amount paid during year	<hr/> \$80000 00

INTEREST

Appropriation, March 6, 1916	\$13000 00
Received as Interest on Deposits	1194 84
	<hr/> \$14194 84
Feb. 4, Geo. A. Higgins, Treas., paid 1 Water coupon	\$ 20 00
Feb. 25, Geo. A. Higgins, Treas., paid 16 Water coupons	320 00
Mar. 11, Bureau of Statistics, Com. of Mass., Notes No. 31 to 38 inclusive	16 00
Mar. 13, Andover National Bank, Int. on Notes No. 31 to 38 inclu- sive	1555 80
Mar. 18, Geo. A. Higgins, Treas., paid 3 Sewer coupons	60 00
Mar. 29, Old Colony Trust Co., 25 Water coupons	500 00
Mar. 29, Old Colony Trust Co., 10 Sewer coupons	200 00
April 6, Geo. A. Higgins, Treas., paid 17 Water coupons at $17\frac{1}{2}$	297 50
April 21, Old Colony Trust Co., 9 Water coupons	180 00
April 21, Old Colony Trust Co., 25 Ando- ver Loan Act	500 00
May 11, Geo. A. Higgins, Treas., paid 20 Water coupons	400 00
June 1, Geo. A. Higgins, Treas., paid 10 Water coupons	200 00
June 1, Geo. A. Higgins, Treas., paid 36 Water coupons at $17\frac{1}{2}$	630 00
<i>Amount carried forward</i>	<hr/> \$4879 30

Appropriation and Receipts		\$14194 84
<i>Amount brought forward</i>		\$4879 30
June 7,	Geo. A. Higgins, Treas., paid 24 Water coupons	480 00
June 8,	Geo. A. Higgins, Treas., paid 12 Water coupons	240 00
June 8,	Geo. A. Higgins, Treas., paid 28 Sewer coupons	560 00
June 22,	Geo. A. Higgins, Treas., paid 2 Sewer coupons	40 00
June 22,	Geo. A. Higgins, Treas., paid 1 Water coupon	20 00
June 23,	Old Colony Trust Co., 60 Sewer coupons	1200 00
July 29,	Geo. A. Higgins, Treas., paid 1 Sewer coupon	20 00
July 29,	Geo. A. Higgins, Treas., paid 2 Water coupons	40 00
Aug. 1,	Old Colony Trust Co., 16 Water coupons	320 00
Sept. 2,	Geo. A. Higgins, Treas., paid 1 Sewer coupon	20 00
Sept. 23,	Old Colony Trust Co., 10 Sewer coupons	200 00
Sept. 23,	Old Colony Trust Co., 24 Water coupons	480 00
Oct. 19,	Geo. A. Higgins, Treas., paid 16 Water coupons at $17\frac{1}{2}$	280 00
Oct. 25,	Old Colony Trust Co., 8 Water coupons at $17\frac{1}{2}$	160 00
Oct. 25,	Old Colony Trust Co., 25 Ando- ver Loan Act coupons	500 00
Nov. 4,	Geo. A. Higgins, Treas., paid 20 Water coupons	400 00
<i>Amount carried forward</i>		<hr/> \$9839 30

Appropriation and Receipts		\$14194 84
<i>Amount brought forward</i>	\$9839 30	
Nov. 17, Geo. A. Higgins, Treas., paid 2 Water coupons	40 00	
Dec. 4, Geo. A. Higgins, Treas., paid 23 Water coupons at 17½	577 50	
Dec. 4, Geo. A. Higgins, Treas., paid 15 Water coupons at 17½	300 00	
Dec. 8, Geo. A. Higgins, Treas., paid 26 Water coupons at 17½	520 00	
Dec. 8, Geo. A. Higgins, Treas., paid 9 Sewer coupons at 17½	180 00	
Dec. 14, Geo. A. Higgins, Treas., paid 12 Water coupons at 17½	240 00	
Dec. 14, Geo. A. Higgins, Treas., paid 3 Sewer coupons at 17½	60 00	
Dec. 27, Old Colony Trust Co., paid 10 Water coupons at 17½	200 00	
Dec. 27, Old Colony Trust Co., 70 Sewer coupons	1400 00	
1917		
Jan. Geo. A. Higgins, Treas., paid 8 Sewer coupons	160 00	
Jan. Geo. A. Higgins, Treas., paid 1 Water coupon	20 00	
Total expenditure	13536 80	
Balance unexpended	658 04	
	<hr/>	
	\$14194 84	\$14194 84

REDEMPTION OF BONDS

Appropriations

For Redemption of Water Bonds	\$11000 00
For Redemption Andover Loan Act bonds	5000 00
For Redemption Abbott Village Sewer bonds	4505 67
Received for premium and interest on A.V.S. bonds	494 33

\$21000 00

Mar. 29, Old Colony Trust Co., 1 Water	
Water bond, No. 286	\$1000 00
April 6, Geo. A. Higgins, Treas., paid 1	
Water bond, No. 214	1000 00
April 21, Old Colony Trust Co., 1 Water	
bond, No. 332	1000 00
June 1, Geo. A. Higgins, Treas., paid 2	
Water bonds, Nos. 238, 248	2000 00
June 23, Old Colony Trust Co., 5 Sewer	
bonds, Nos. 141 to 145 inc.	5000 00
Aug. 10, Old Colony Trust Co., 1 Water	
bond, No. 315	1000 00
Oct. 25, Old Colony Trust Co., 5 Ando-	
ver Loan Act bonds, Nos. 15	
to 20	5000 00
Nov. 4, Geo. A. Higgins, Treas., paid 5	
Water bonds, Nos. 131 to 135	5000 00

Total expenditure	\$21000 00	\$21000 00
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SEWER SINKING FUNDS

Appropriation, March 6, 1916		\$1000 00
Dec. 1, Willis B. Hodgkins, Treasurer		
Sinking Fund	\$1000 00	
Total expenditure	\$1000 00	\$1000 00

WATER SINKING FUNDS

Appropriation, March 6, 1916		\$750 00
Dec. 1, Willis B. Hodgkins, Treasurer		
Sinking Funds	\$750 00	
Total expenditure	\$750 00	\$750 00

MISCELLANEOUS

Appropriation, March 6, 1916		\$1700 00
Conlin & Ryan, return of deaths	\$ 9 00	
W. & L. E. Gurley, supplies for scales	15 85	
A. M. Colby, painting signs	20 50	
George H. Leck, photos Prospect Hill road	8 00	
E. F. Conkey, cleaning sanitary, B. Vale	3 00	
Treat Hardware and Supply Co.	1 15	
New England Tel. & Tel. Co.	8 99	
H. M. Meserve & Co.	2 25	
Edith P. Sellars, clerical work	27 00	
American Express Co.	85	
Myerscough & Buchan, auto for registrars of voters	18 00	
Commonwealth of Massachusetts	75	
John Franklin, plan	4 00	
Reynolds Mfg. Co.	10 75	
Patrick Cronin, settlement for injuries	225 00	
Lilla D. Stott, return of transfers of real estate	51 00	
John A. Riley, attendance on board of registrars	20 35	
James S. May	3 00	
Patrick J. Barrett	3 00	
Carfare and expense of selectmen attend- ing hearings	25 54	
Andover National Bank, safe deposit box	5 00	
C. W. Flanders, lunch for precinct officers	4 00	
John H. McDonald, postoffice box	2 40	
Benjamin Jaques	3 00	
Thomas F. Dailey, services at elections	10 00	
H. F. Dearborn, return of births	1 75	
Walter I. Morse	3 85	
C. Madeleine Hewes, copying valuation books	68 60	
<i>Amount carried forward</i>	<u>\$556 58</u>	

Appropriation, March 6, 1916		\$1700 00
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<i>Amount brought forward</i>	\$556 58	
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John W. Richardson, carpenter work on Old Schoolhouse, B. Vale	41 05	
Dr. Geo. W. Dow, services in Boland case	15 00	
B.M.R.R., rental of Boulders	1 00	
T. F. Morrissey & Son	23 00	
B. & M. R.R., railroad tickets	30 00	
M. J. Mahoney, return of deaths	2 50	
Dr. W. D. Walker, return of births	8 25	
Dr. J. J. Daly, return of deaths	8 00	
Dr. E. D. Lane, return of births	6 50	
Dr. Percy J. Look, return of births	5 50	
Dr. C. E. Abbott, return of births	1 25	
Dr. E. C. Conroy, return of births	75	
Everett M. Lundgren, return of deaths	23 00	
Dr. C. W. Scott, return of deaths	50	
W. F. Gledhill, fish warden	10 00	
E. W. Prescott, corporation returns	17 50	
Ira B, Hill, field driver	25 00	
George A. Higgins, town clerk, sundry expenses	8 50	

Total expenditure	783 88	
Transferred to Water Maintenance	400 00	
Transferred to Insurance	135 00	
Balance unexpended	381 12	

	\$1700 00	\$1700 00
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OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1916.

Your Overseers can add but little to the previous reports relating to the general condition and management of our almshouse. Those who have visited the house during the past year could but be impressed by the character and condition of our present inmates, most of whom have long since passed the allotted three score years and ten, four being eighty or over, four seventy to eighty and four sixty to seventy, and naturally with the infirmities attendant upon advancing years the attention necessary for their proper care increases day by day, but we have always found our superintendent and matron ever willing and ready to aid and cheer those under their care.

Your Overseers appreciate the aid rendered by our townspeople, in brightening the hours of those who have been less fortunate. The organ and victrola, so kindly donated, have afforded many hours of pleasure and enjoyment to our little family at the Andover Home.

During the past year, part of the main house has been shingled, rooms papered and painted, together with general repairs on the barn and outbuildings.

For Almshouse expenses we would ask the sum of \$4200 be appropriated; for repairs, \$250; to meet the requirements of Chapter 763, Acts of 1913, an act for suitably aiding mothers with dependent children, the sum of \$800.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Overseers of the Poor

ALMSHOUSE EXPENSE

Appropriation, March 6, 1916	\$4200 00
Receipts from Town Farm	843 50

5043 50

Smith & Manning, groceries	\$ 186 46
Reid & Hughes, dry goods	138 98
F. C. Small Co., groceries	44 18
T. A. Holt Co., groceries	679 91
S. K. Ames, supplies	52 00
George C. Dunnells, fish	11 17
J. P. Wakefield, provisions	14 39
Robert Hutcheson, fish	63 39
Albert W. Lowe, drugs	32 56
D. F. Chase, supplies	192 44
Hiller & Co., supplies	18 24
Treat Hardware Co., supplies	11 00
H. Bruckman, grain	186 04
Frank L. Cole, clothing	9 77
Lawrence Gas Co.	170 04
J. H. Champion & Co., groceries	93 43
Valpey Bros., provisions	111 84
Buchan & McNally, supplies	12 83
Walter I. Morse, hardware	14 64
William A. Nelson, supplies	10 50
Beach Soap Co., supplies	4 90
H. J. Furneaux, provisions	35 17
M. L. Harwood, supplies	44 87
Family Shoe Store, shoes	8 66
Charles Robinovitz, shoes and repairing	10 20
International Stock Food Co., supplies	10 50
Anderson & Bowman, blacksmith work	33 60
A. M. Colby, supplies	45 70
Robertson & Sutherland Co., dry goods	45 48
Malcolm B. McTernen, dentistry	2 00
J. P. West, supplies	36 82

<i>Amount carried forward</i>	\$2331 71
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Appropriation and Receipts

\$5043 50

<i>Amount brought forward</i>	\$2331 71
O. P. Chase, supplies	18 15
Ira Buxton, supplies	8 35
Crowley & Co., drugs	20 45
Peter Henderson & Co., seeds and bulbs	4 70
J. E. Whiting	4 00
Everett M. Lundgren, funeral expenses	30 00
Providence Churning Co., supplies	31 50
Frank L. Holt, labor	23 75
New England Tel. and Tel. Co.	1 60
Armour & Co., supplies	6 60
J. H. Playdon, plants	3 30
George A. Brown, shoes	10 15
Buchan & Francis, supplies	81 94
Lindsay & Young, provisions	72 39
Tyer Rubber Co., supplies	2 25
O. W. Vennard, opening grave	5 00
Alvin Jenkins, pasturing heifer	6 00
Board of Public Works, water	75 45
Frank E. Whiting, supplies	2 50
Peoples Ice Co., ice	50 00
T. F. Morrissey & Son, straw	12 26
A. Basso, supplies	13 10
T. H. Lane & Son, clothing	35 40
Andover Coal Co., coal	340 00
Walter C. Boyce, pasturing heifer	15 00
Fred A. Swanton, superintendent	800 00
Isabel Sinclair, labor	102 00
Bertha Jansson, labor	271 00
Annie Keenan, labor	72 00
Mrs. M. McEwan, labor	5 00
Agnes Keeape, labor	195 00
Jhon Le Leasson, labor	195 00
Gustavus Johnson, labor	125 00
Ellen Blair, labor	8 37
<i>Amount carried forward</i>	<hr/> \$4978 92

Appropriation and Receipts		\$5043 50
<i>Amount brought forward</i>	\$4978 92	
Jean Milne, labor	25 00	
Robina Mitchell, labor	4 00	
Mary Heald, labor	22 00	
	<hr/>	
Total expenditure	5029 92	
Balance unexpended	13 58	
	<hr/>	
	\$5043 50	\$5043 50

ALMSHOUSE REPAIRS

Appropriation, March 6, 1916		\$ 450 00
George D. Ward, labor	\$ 20 00	
Walter I. Morse, hardware	50 70	
George H. Pearce, paper and labor	66 54	
D. W. Pingree Co., supplies	18 42	
Board of Public Works, supplies	4 30	
J. E. Pitman, lumber	13 74	
William Knipe & Co., labor and supplies	9 50	
Anderson & Bowman, labor and supplies	7 00	
George Dufton, lumber and labor	126 80	
Buchan & McNally, labor and supplies	19 40	
Eastman & Blyth, paper	7 96	
Treat Hardware and Supply Co., supplies	1 64	
A. M. Colby, supplies	15 65	
Frank E. Dodge, labor and supplies	32 80	
Morrison & O'Connell, labor and supplies	12 00	
	<hr/>	
Total expenditure	406 45	
Balance unexpended	43 55	
	<hr/>	
	\$450 00	\$450 00

SOLDIERS' RELIEF

Appropriation, March 6, 1916		\$ 900 00
Total expenditure	\$739 84	
Balance unexpended	160 16	
	<hr/>	<hr/>
	\$900 00	\$900 00

STATE AID

Appropriation, March 6, 1916		\$1500 00
Total expenditure	\$1141 74	
Balance unexpended	358 26	
	<hr/>	<hr/>
	\$1500 00	\$1500 00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 6, 1916		\$500 00
Town cases	\$516 00	
On account other cities	180 00	
On account of State	108 00	
	<hr/>	
Total expenditure	804 00	
Due Town from other cities	\$120 00	
Due Town from State	206 00	
Reimbursed by State	132 00	
	<hr/>	
	458 00	
	<hr/>	
Net expenditure	346 00	
Unexpended	154 00	
	<hr/>	<hr/>
	\$500 00	\$500 00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 6, 1916		\$4300 00
Paid out of almshouse	\$3512 72	
Paid other cities and towns	361 67	
Paid State	23 50	
Paid on account other cities and towns	405 47	
Paid on account State	125 80	
	<hr/>	
Total expenditure	4429 16	
Due Town from other cities and towns	\$405 47	
Due Town from State	125 80	
	<hr/>	
	531 27	
	<hr/>	
Net expenditure	3897 89	
Unexpended	402 11	
	<hr/>	
	\$4300 00	\$4300 00

PERSONAL PROPERTY AT ALMSHOUSE

House furniture	\$1200 00	
Clothing	400 00	
Farm stock	978 00	
Farm tools	350 00	
Farm produce	485 00	
Fuel	418 00	
Provisions	150 00	
	<hr/>	
		\$3981 00

ALMSHOUSE SUPERINTENDENT'S REPORT

Number of inmates in the almshouse January 1, 1916	14
Number admitted during the year	5
Average number for the year	16
Number discharged	1
Number died	2
Number sent to Tewksbury	1
Number sent to Danvers	1
Number in almshouse January 1, 1917	14
Number over eighty years of age	4
Number between seventy and eighty	4
Number between sixty and seventy	4
Number under sixty	2
Tramps fed	2

FARM CASH REPORT

Received for	
Cows and boarding cows	\$ 361 00
Bulls and service of bulls	98 00
Calves	7 00
Milk	51 24
Pork and pigs	101 91
Eggs	81 32
Chickens	13 50
Boarding Miss Buckley	208 00
Beans	10 00
Apples	4 78
Vegetables	13 75
Use of cart	5 00
Lumber	50 00
Due for hay	34 19
	<hr style="width: 10%; margin-left: 0;"/> \$1039 69

Paid for		
Cows	\$ 120 00	
Calves	5 00	
Chickens	37 00	
Due for hay	34 19	
	<hr/>	
	196 19	
Cash to balance	843 50	
	<hr/>	
	\$1039 69	\$1039 69

FRED A. SWANTON, *Superintendent*

ASSESSORS' REPORT

We herewith submit our annual report.

Number of male polls assessed		2089
Personal estate	\$2745413 00	
Real estate	6159975 00	
	<hr/>	\$8905388 00
Poll tax	\$ 4178 00	
Tax on personal property	48045 86	
Tax on real estate	107801 12	
	<hr/>	160024 98
Rate of taxation per \$1000	\$17.50	
Number of		
Horses assessed		569
Cows assessed		931
Cattle other than cows assessed		314
Sheep assessed		75
Swine assessed		192
Fowl assessed		13025
Dwellings assessed		1584
Acres of land assessed		18112

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Assessors of Andover

BOARD OF HEALTH

We do hereby submit our annual report for the year ending December 31, 1916.

It is with a great deal of satisfaction that we note almost a 50% decrease in the number of cases of contagious diseases, and this in view of the fact that all seem to realize more and more each year the importance of reporting all cases that may come to their attention.

During the year 1916 there were 164 cases reported, compared to 319 for the year 1915. The first six months of the year 1916 there were 133 cases compared to 283 in 1915. The last six months of 1916 there were 31 cases, compared with 36 in 1915.

The cases during the year were classified as follows, compared with 1915:—

	1915	1916		1915	1916
Chicken Pox	40	5	Mumps	5	34
Diphtheria	27	12	Scarlet Fever	39	5
German Measles	106	2	Tuberculosis	19	12
Ophthalmia	2	1	Typhoid Fever	2	6
Measles	63	9	Whooping Cough	12	74
Infantile Paralysis		2	Spinal Meningitis	3	2

During the past year there have been thirteen deaths caused by communicable diseases.

Tuberculosis	7
Whooping Cough	3
Scarlet Fever	1
Typhoid Fever	2
	—
	13

Andover has been very fortunate in regard to the cases of Infantile Paralysis (Anterior Poliomyelitis), having had but two cases, with no deaths. The first case was at Phillips Academy, the patient being immediately transferred to the Malden Con-

tagious Hospital, while a strict quarantine of his associates was maintained for two weeks. The other case was very mild, the child mingling with other children during the first part of the illness or until paralysis had developed. As there were no secondary cases it would seem that the danger of contagion from personal contact and association must be very slight.

On the recommendation of this Board and the School Physician the school opening was delayed two weeks, and at that time a careful inspection of each pupil was made by the School Physician, assisted by the local physicians.

It would perhaps be well to say here that parents should realize that Measles and Whooping Cough are fully as dangerous in their after effects as the dreaded Infantile Paralysis. Many cases of Tuberculosis, Asthma, Bronchitis and Pneumonia are attributed to these causes, and it is decidedly wrong to think lightly of these diseases, believing that the child will have them eventually and that it is better to have it over with as soon as possible. This practice should be heartily condemned.

The Rules and Regulations of the Board of Health have this year been carefully revised and extended, and the same published.

Regulations relating to plumbing and house drainage have remained unchanged since 1894, so we felt in view of the fact that new building laws were to be brought before the town, it was very necessary to revise them. This has been carefully done, with the advice and cooperation of our Inspector of Plumbing, and we believe now that the town of Andover is strictly up-to-date in this respect.

The School Nurse was installed this year under private auspices and we firmly believe that it is a duty of the town to see that this desirable work is continued in the future.

We also recommend that the town should in the near future consider the feasibility of the installation of a comfort station in or near Elm Square.

At our request the Board of Public Works has extended the sewage system on Main Street, also on the lower end of School Street and Ridge Street, thus abating many nuisances which have been constantly complained of for several years.

Several complaints having been received in regard to the carelessness of persons collecting garbage and ashes, it was deemed expedient to license the collectors, whereby we could more easily prevent the dropping of garbage on streets and sidewalks as well as the untidiness caused by waste paper blowing about; the yearly fee was fixed at fifty cents.

The appointments of the Board were as follows:—

Mr. George A. Higgins, clerk to act in the matter of registration of births and deaths.

Charles H. Newton, nominated Inspector of Slaughtering and appointed by the State Department of Health.

Percy J. Look, M.D., was appointed agent with full power to act in the absence of two or more members from town. This was done with special reference to the epidemic of Infantile Paralysis during the summer vacation season.

H. H. Nevers, M.D., was appointed Bacteriologist for the examination of Diphtheria cultures, for diagnosis only.

Miss Emily Sprague was appointed as a special agent of the Board of Health.

On account of the small number of contagious diseases and the discharge of tuberculosis patients from the various State institutions, we have a balance this year of \$769.98.

The expenditures of the year are as follows:—

Appropriation, March 6, 1916		\$2000 00
Chas. H. Newton, Inspector of Cattle	\$ 250 00	
Chas. H. Newton, Inspector of Slaughtering	102 00	
Joseph P. Nolan, Inspector of Plumbing	98 00	
William Knipe, Assistant Inspector of Plumbing	28 00	
Andover Press, advertising and printing	14 10	
Dr. J. F. Winchester, inspection of diseased cow	5 00	
Dr. Charles E. Abbott, Secretary Board of Health	75 00	
Franklin H. Stacey, salary	50 00	
<hr/>		
<i>Amount carried forward</i>		\$622 10

Appropriation, March 6, 1916.

<i>Amount brought forward</i>		\$2000 00
Bancroft T. Haynes, salary	622 10	
John H. McDonald, postmaster	30	
Franklin H. Stacey, Inspector of Milk	75 00	
Telephone	1 25	
Transportation	4 37	
Burying dead animals	2 10	
Andover Press, Plumbing Rules	31 50	
Andover Press, Board of Health Rules	54 00	
Massachusetts Assn. Boards of Health	2 50	
Miscellaneous supplies	2 26	
	<hr/>	
Total	845 38	

CONTAGIOUS DISEASES

Quarantine	32 00	
Sealing plaster	65	
Dr. Charles E. Abbott, fumigation	58 00	
Dr. Percy J. Look, fumigation	4 00	
Franklin H. Stacey, fumigators and disin- fectants	20 50	
Express	26	
Telephone	3 37	
Dr. H. H. Nevers, diphtheria cultures	27 00	
Transportation	1 35	
Miss Abbott, transportation	1 50	
Rutland Tuberculosis Hospital	146 86	
Transportation of Patient to Tuberculosis Hospital	2 00	
Lawrence Tuberculosis Hospital	77 15	
Andover Press, printing	3 75	
Dr. Percy J. Look, services	5 00	
	<hr/>	
<i>Amount carried forward</i>	383 39	

Appropriation, March 6, 1916.		\$2000 00
\ <i>Amount brought forward</i>	\$383 39	
Frank Carse, police duty	1 25	
	<hr/>	
Total	\$ 384 64	
Total general expense	845 38	
Balance	769 98	
	<hr/>	
	\$2000 00	<hr/> \$2000 00

Respectfully submitted,

FRANKLIN H. STACEY, PH.C.
CHAS. E. ABBOTT, M.D.
BANCROFT T. HAYNES

FIRE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen.

GENTLEMEN:— I submit to you the report of the Fire Department for the year ending December 31, 1916.

The Department consists of three Engineers, five permanent men, twenty-six callmen, and apparatus as follows: one Auto Combination Chemical and Hose; one Auto Combination Chemical, Pump and Hose; one Fourth Class Steam Fire Engine; one horse-drawn Ladder Truck; one horse-drawn Hose Wagon; one Pung; one Supply Wagon; and five Horses.

During the past year we have responded to 42 bell alarms, five still alarms and one out-of-town call to North Reading.

Combination No. 1 has traveled 109.8 miles, and Combination No. 2 has traveled 63.6 miles.

We have laid 13,250 feet of hose, used 854 gallons chemicals, and raised 1,071 feet of ladders.

Value of buildings and contents where fires occurred	\$146800 00
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Insurance on buildings and contents where fires occurred	10848 00
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Loss on buildings and contents where fires occurred	16190 79
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We have replaced the Fire Alarm box on Maple Avenue which was destroyed last year, also installed a new box (No. 31) on the Reading Road beyond Gould Road.

The Ballardvale Engine House has been repaired and painted and is now in good condition.

The Alarm System has been kept in good condition, repairs having been made as soon as needed by the Permanent Man having charge of that work.

Wires have been rehung on part of Bartlet Street, Chapel Avenue, Main and Salem Street. We have made numerous changes owing to the renewal of poles. The battery elements will have to be renewed this year as they have outlived their usefulness; we will also need some new tires this year.

I would recommend \$8,700 for maintenance, necessary repairs and additions and \$500 for new hose.

Respectfully submitted,

CHARLES S. BUCHAN

Chief Engineer

POLICE DEPARTMENT

CHIEF'S REPORT

To the Board of Selectmen.

GENTLEMEN: I hereby submit the report of the Police Department for the year ending December 31, 1916.

Whole number of arrests,— Males 137 Females 11 148

OFFENCES FOR WHICH ARRESTS WERE MADE

Gaming implements in place of business	3
Assault with dangerous weapon	2
Having dangerous weapon in possession	2
Drunks	24
Common drunkard	6
Insane	9
Peddling without license	5
Disturbance in street car	2
Cruelty to animals	5
Violation of town ordinance	14
Larceny	15
Violation of automobile law	13
Interfering with an officer	1
Robbery	1
Breaking and entering	2
Assault	13
Vagrant	3
Disturbance of the peace	5
No lights on horse-drawn vehicles	5
Stubborn child	2
Trespass	1
Non-support	2
Disorderly house	2
Breaking mailbox	1
Storing dynamite without license	1
Held for out-of-town officers	7

DISPOSITION OF CASES

Appealed	4
Continued	20
Committed to State Farm	6
Committed to insane asylum	9
Committed to House of Correction	7
Discharged	28
Held for Grand Jury	7
Held for out-of-town officers	7
Paid fines	44
On probation	11
On file	5
	<hr/>
Total	148

MISCELLANEOUS

Fines paid in lower court	\$311 00
Fines paid in Superior Court	5 00
Burglaries reported	5
Dead bodies cared for	5
Doors found opened and secured	42
Dogs killed	35
Value of property stolen	\$3500 00
Value of property recovered	3000 00
Value of police equipment	350 00

SUPERIOR COURT FINDINGS

One year and three months sentence	1
Two and one-half years sentence	1
On probation	2
No bill found	2
Paid fine in Superior Court	1

Respectfully submitted

FRANK M. SMITH

Chief of Police

TREE WARDEN'S REPORT

During the past year some seventy-five maple trees have been planted by this department in the various parts of the town, and several trees in the residential section of the town have been trimmed and a few large trees have been removed for the betterment of the town. I am pleased to note that the Ballardvale Village Improvement Society have taken an active part in the development of their section of the town and have had planted some thirty-five trees on the streets at their expense which will add greatly to the beauty of that section of the town in the future and I would ask that the sum of \$500 be appropriated for this department.

J. H. PLAYDON

Tree Warden

REPORT OF MOTH SUPERINTENDENT

As the past spring was a very unsatisfactory one for our department owing to the extremely wet season at the spraying time, we were unable to obtain as good results as anticipated, with the result that there is a marked increase in Gypsy moth nests in the residential part of the town which has made the cost of winter work increase. However, with the almost extinction of the Browntail moth and Elm Bettle we have been able to live within our appropriation.

Roadside cutting has been done on several roads in the outlying districts of the town which will help greatly to better conditions, but owing to the extra cost of labor and material, I shall have to ask that the same appropriation of \$3000.00 be appropriated for the department.

J. H. PLAYDON

Local Superintendent

SPRING GROVE CEMETERY

On September 9th, 1916, the whole community was shocked to learn of the death of Oliver W. Vennard, Superintendent of the Spring Grove Cemetery. While driving from town to the cemetery he was thrown from his carriage and instantly killed.

In the death of Mr. Vennard, your trustees met with an irreparable loss. Mr. Vennard took great pride in the development of the cemetery, and its present satisfactory condition is due largely to his faithful and efficient services as superintendent, extending over a period of twenty-three years.

The appropriation for the cemetery during the past year has been largely expended in preparing a few of the remaining lots, in re-facing the main driveways and paving the sides of same on the inclines to prevent washouts in the spring. We have also broken up a small portion of the unimproved land on the east side of the Old Railroad Bed.

The time has now come when it is absolutely necessary to lay out a plot of several acres on the east side of the Old Railroad Bed in accordance with plans recently made. For this purpose your committee would ask for \$2000 in addition to the regular appropriation of \$1000 and the sale of lots and receipts for work done in the cemetery.

JOHN L. SMITH
FELIX G. HAYNES
WALTER I. MORSE
GEORGE D. MILLETT
DANIEL H. POOR
JOHN W. BELL

Cemetery Trustees

Andover, December 30, 1916

REPORT OF SUPERINTENDENT

Lots sold as per last year	444
Lots sold this year	15
<hr/>	
Total number of lots sold	459
Total number of single graves sold	166
Interments as per last report	1216
Interments this year	60
Total number of interments	1276

JOHN W. BELL

For Superintendent

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen.

GENTLEMEN: I hereby submit my report for the year beginning November 15, 1915, and ending November 15, 1916.

Number of cattle inspected	1330
Number of stables inspected	159
Number of cows condemned because affected with tuberculosis	32
Interstate cattle identified and released	21
Number of cases of glanders	1
Stables disinfected	29

Respectfully submitted

CHARLES H. NEWTON

Inspector of Animals

CORNELL FUND

RECEIVED

Amount of Fund		\$5000 00
Deposited in Savings Banks		5000 00
Balance from last year	\$ 59 47	
Dividends	200 00	
	—————	259 47

PAID

Paid for coal and wood	\$191 00	
Balance on hand	68 47	
	—————	259 47

JOHN C. ANGUS
ALLAN SIMPSON
W. D. WALKER

Trustees

SCHEDULE OF TOWN PROPERTY

Town House, fixtures and furniture	\$32000 00	
Engine house, storehouse and barn	16000 00	
25723 ft. land	20000 00	
	<hr/>	\$68000 00
Memorial Hall	25000 00	
22318 ft. land	10000 00	
	<hr/>	35000 00
Engine house, Ballardvale	3000 00	
New shed	200 00	
1-3 acre land	250 00	
	<hr/>	3450 00
Almshouse	12000 00	
Barn and other buildings	1500 00	
31 1-2 acres land	5000 00	
	<hr/>	18500 00
Punchard schoolhouse	28000 00	
4 acres land	8000 00	
	<hr/>	36000 00
Heating plant and		
John Dove schoolhouse	42000 00	
Stowe schoolhouse	24000 00	
3 3-4 acres of land	6000 00	
	<hr/>	72000 00
Bradlee schoolhouse, Ballardvale	14500 00	
1 acre land	500 00	
	<hr/>	15000 00
Richardson schoolhouse	5000 00	
1-2 acre land	400 00	
	<hr/>	5400 00
<i>Amount carried forward</i>		<hr/> \$253350 00

<i>Amount brought forward</i>		\$253350 00
Indian Ridge schoolhouse	\$ 9600 00	
1 acre land	800 00	
	<hr/>	10400 00
West Centre schoolhouse	3500 00	
1-2 acre land	150 00	
	<hr/>	3650 00
North District schoolhouse	3500 00	
1-2 acre land	50 00	
	<hr/>	3550 00
Bailey District schoolhouse	1800 00	
1-2 acre land	50 00	
	<hr/>	1850 00
Osgood District schoolhouse	800 00	
1-2 acre land	50 00	
	<hr/>	850 00
Old schoolhouse, Ballardvale	2500 00	
1-4 acre land	500 00	
	<hr/>	3000 00
9 acres, Indian Ridge (Gravel Pit)		4000 00
41 1-2 acres, Carmel Woods Reservation		3600 00
173,751 sq. ft. land, Central Park, (Richardson Field)		12000 00
6 1-2 acres Playstead		3000 00
Bandstand		1000 00
Andover Board Public Works—		
Pipelines and fountains	248000 00	
Pumping-station and buildings	42500 00	
Coal shed	700 00	
3 acres land	800 00	
20 acres Boston Ice Co. land	2500 00	
2 reservoirs	16000 00	
4 1-2 acres land	2350 00	
Machinery and tools	1000 00	
Stone-breaker and engine	2000 00	
Steam road roller	1000 00	
	<hr/>	
<i>Amount carried forward</i>	\$318850 00	300250 00

<i>Amount brought forward</i>	\$318850 00	300250 00
3 sleds	75 00	
1 auto	250 00	
3 horses	800 00	
Carts and harnesses	200 00	
Sewer system	245000 00	
Workshop, Lewis Street	1000 00	
Barn and shed, Lewis Street	3000 00	
47467 ft. land, Lewis Street	3000 00	
	<hr/>	572175 00
		<hr/>
		872425 00
Punchard School Fund		76454 28
Memorial Hall, Permanent Fund	\$45000 00	
Memorial Hall Library, John Cornell Fund	7700 00	
Memorial Hall Library, John Byers Fund	10000 00	
Memorial Hall Library, Edward Taylor Fund	500 00	
Memorial Hall Library, Isaac E. Gid- dings Fund	3000 00	
Memorial Hall Library, and furniture	10000 00	
Memorial Hall Library, Woman's Chris- tian Temperance Union	100 00	
Memorial Hall Library, Phillips Fund	3200 00	
	<hr/>	79500 00
Personal property at Town Farm		3981 00
Motor Combination Chemical Truck		5300 00
Motor Combination Pump and Truck		9000 00
One Steam Fire Engine and apparatus		2800 00
Hook and Ladder Truck		1000 00
Two hose wagons		1000 00
Hose sled		60 00
Four horses		1000 00
Hay scales		350 00
		<hr/>
<i>Amount carried forward</i>		\$1052870 28

<i>Amount brought forward</i>		\$1052870 28
Safes in Town House		800 00
41 1-2 acres land, Spring Grove Cem'y	7500 00	
Receiving-tomb and toolhouse	1500 00	
	<hr/>	9000 00
Weights and measures		350 00
Fire Alarm apparatus		4500 00
4000 ft. hose		2000 00
		<hr/>
		\$1069520 28

REPORT OF TAX COLLECTOR

To the Board of Assessors:

I herewith hand you my report as Collector of Taxes for the year ending December 31, 1916.

	1913	
Amount as per warrant	\$	915 28
Additional assessments		7 80
Moth work		3 50
Interest		91 28
Collected taxes	\$	525 20
Collected moth work		3 50
Collected interest		91 28
Abated		397 88
		<hr/>
	\$	1017 86 \$ 1017 86

	1914	
Amount as per warrant	\$	9007 49
Additional assessments		26 36
Moth work		86 66
Street Sprinkling		45 73
Interest		574 91
Collected taxes	\$	6265 09
Collected moth work		86 66
Collected street sprinkling		45 73
Collected interest		574 91
Abated		325 07
Error, additional assessments, 1915		72 00
Uncollected		2371 69
		<hr/>
	\$	9741 15 \$ 9741 15

1915

Amount as per warrant	\$ 27016 15
Additional assessments	531 86
Moth work	225 20
Street sprinkling	170 46
Interest	518 73
Collected taxes	\$ 16698 09
Collected moth work	225 20
Collected street sprinkling	170 46
Collected interest	518 73
Abated	472 18
Uncollected	10377 74

\$ 28462 40 \$ 28462 40

1916

Amount as per warrant	\$ 161547 48
Additional assessments	105 89
Bay State St. R.R. Excise Tax	2174 30
Street sprinkling	1637 04
Moth work	1344 90
Interest	68 80
Collected taxes	\$137318 21
Collected Bay State St. R. R. Excise Tax	2174 30
Collected street sprinkling	1637 04
Collected moth work	1344 90
Collected interest	68 80
Abated	268 38
Uncollected	24066 78

\$166878 41 \$166878 41

SUMMARY COLLECTOR'S CASH ACCOUNT

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	Taxes	Excise Tax	Moth Work	Street Sprinkling	Interest	Total
1913	\$ 525 20		3 50		\$ 91 28	\$ 619 98
1914	6265 09		86 66	45 73	574 91	6972 39
1915	16698 09		225 20	170 46	518 73	17612 48
1916	137318 21	2174 30	1344 90	1637 04	68 80	142543 25
	\$160806 59	\$2174 30	\$1660 26	\$1853 23	\$1253 72	\$167748 10

JOHN W. BELL
Collector of Taxes

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (10000 due 1917)	\$122000 00
Water Bonds, 3½% (3000 due 1917)	50000 00
Sewer Bonds, 4% (5000 due 1917)	110000 00
And'r Loan Bonds, 4% (5000 due 1917)	20000 00
High School Loan, 4% (5000 due 1917)	100000 00
	<hr/> \$402000 00

Assets

Cash, General Fund	\$16755 27
Cash, Water Department	5026 59
Cash, Sewer Department	2960 15
Cash, High School Loan	69907 63
Cash, Water Bond Premium	50 78
Cash, Sewer Bond Premium	151 16
Cash, Sewer Assessments	6504 50
	<hr/> \$101356 08
Uncollected Taxes	\$ 36816 21
Street Sprinkling	388 67
Moth Work	545 32
	<hr/> 37750 20
Commonwealth, State Aid	\$ 1141 74
Commonwealth, Pauper Account	125 80
Cities and Towns, Pauper Account	405 47
Cities and Towns, Mothers' Aid	206 00
Sewer Assessments	11341 28
Unpaid Water Rates of January 1	6518 95
Sinking Funds	53570 33
	<hr/> 73309 57
Balance against Town	189584 15
	<hr/> \$402000 00

GEORGE A. HIGGINS, Treas., in

DR.

Balance, Jan. 1, 1916, General Fund	\$ 21774 28
Balance, Jan. 1, 1916, Water Department	1543 21
Balance, Jan. 1, 1916, Sewer Department	15410 33
Commonwealth, Corporation Tax	18538 82
Commonwealth, Bank Tax	5148 38
Commonwealth, St. Railway Tax	1420 46
Commonwealth, State Aid	1394 00
Commonwealth, School Tuition	432 00
Commonwealth, Industrial School	30 82
Commonwealth, Temporary Aid	155 48
Commonwealth, Pauper Account	3 00
Commonwealth, Mothers' Aid	132 00
Commonwealth, Highway Com., Moth work	51 65
Commonwealth, Highway Com., Lowell Street	2266 66
Commonwealth, Soldiers' Exemption Refund	67 71
Essex County, Lowell Street	2295 04
Essex County, Dog Tax	596 44
Essex County, killing dogs	35 00
Andover Nat'l Bank, Notes	80000 00
John W. Bell, Collector, Taxes	160806 59
John W. Bell, Interest on Taxes	1253 72
John W. Bell, Collector, St. Ry. Excise Tax	2174 30
John W. Bell, Collector, Street Sprinkling	1853 23
John W. Bell, Collector, Moth Work	1660 26
John W. Bell, Collector, Interest on Deposits	140 72
Water Rates	23496 87
Water Dept., Service Pipe	1582 06
Water Dept., Refund Boston & Maine R. R.	1 09
C. J. Stone, Trial Justice, Fines	89 80
Lawrence House of Correction, Fines	50 00
Almshouse, F. A. Swanton, Supt.	843 50
Spring Grove Cemetery, Sale of Lots	545 80
Town Hall Rents	441 00
School Dept., Tuition and Supplies	986 04

Amount carried forward

\$347220 26

account with the Town of Andover

CR.

Orders paid

Schools	\$ 47495 49
Highway Department	37938 47
North Main Street Sidewalk	4366 55
Lowell Street	6885 31
Park Department	1481 76
Street Lighting	6164 25
Police	4587 19
Fire Department	10697 45
Brush Fires	371 71
Printing and Stationery	1030 23
Insurance	2881 46
Miscellaneous	783 88
Town House	1901 69
Town Officers	6522 25
Spring Grove Cemetery	1533 94
Board of Health	1230 02
Moth Work	4763 96
Tree Warden	188 90
Public Dump	75 00
Hay Scales	106 02
Interest on Notes and Bonds	13536 80
Memorial Day	350 00
Special G.A.R. Appropriation	100 00
Memorial Hall Library	1800 00
Memorial Hall Library, Dog Tax	596 44
Almshouse Expenses	5029 92
Almshouse Repairs	406 45
Relief out of Almshouse	4429 16
Soldiers' Relief	739 84
State Aid	1141 74
Mothers' Aid	804 00
Retirement of Veterans	300 00
Redemption 11 Water Bonds	11000 00

Amount carried forward

\$181239 58

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$347220 26
Cities and Towns, Pauper Account	542 05
Cities and Towns, Mothers' Aid	136 00
Hay Scales	79 35
Smart & Flagg, Agents, Insurance Dividends	196 46
Use of Fire Dept. Horses, Various Departments	1012 66
Fire Dept., Sale of Chemicals and Supplies	141 50
Highway Dept., Labor and Supplies	1695 37
Phillips Academy, Street Lighting	230 00
W. C. Crowley, Sealer's Fees	55 22
Board of Health, Slaughter Licenses	4 00
Board of Health, Garbage Licenses	16 50
Hawkers' and Pedlers' Licenses	78 00
F. H. Stacey, Milk Licenses	11 50
G. A. Higgins, Town Clerk Fees	100 00
Liquor Licenses	3 00
Fireworks Licenses	1 50
Independent Ice Co., Adv. Hearing	1 50
J. H. Playdon, Tree Warden	1 50
J. H. Playdon, Moth Supplies	54 04
Ballardvale Stores, Rent	150 00
Andover Nat'l Bank, Interest on Deposits	1194 84
Andover Nat'l Bank, Interest on High School Loan	433 54
Sewer Dept., House Connections	2399 70
Sewer Dept., Assessments and Interest	9276 13
Sewer Department, Bonds 201-215	15000 00
Sewer Dept., Premium on Bonds	154 50
Sewer Dept., Interest on Bonds	26 66
Water Bonds, 341-350	10000 00
Water Bonds, Premium	103 00
Water Bonds, Interest	17 78
High School Bonds	100000 00
High School Bonds, Premium	2272 00
High School Bonds, Interest	11 11
North Main Street, Sidewalk	2883 80
Police Dept., Services	63 00
Sewer Dept., Premium for Redemption of Bonds	494 33

Total Receipts

\$496060 80

account with the Town of Andover

CR.

<i>Amount brought forward</i>	\$181239 58
Redemption 5 Andover Loan Act Bonds	5000 00
Redemption 5 A. V. Sewer Bonds	5000 00
Water Department	20995 95
Old Colony Trust Co., Certification Water Bonds	70 00
Sewer Department	30010 88
Old Colony Trust Co., Certification Sewer Bonds	30 00
Sewer Dept., Premium for Redemption of Bonds	494 33
Sewer Sinking Funds	1000 00
Water Sinking Funds	750 00
W. B. Hodgkins, Treas. Sinking Fund, Sewer Assessments	2771 63
Sewer House Connections, Refund	121 58
Commonwealth, State Tax	16560 00
Commonwealth, Bank Tax	1503 85
Commonwealth, State Highway Tax	1973 44
County Tax	14374 46
New High School	32809 02
Andover National Bank Notes	80000 00
Total Expenditure	\$394704 72
Balance on hand, Jan. 1, 1917	
General Fund	16755 27
High School Loan	69907 63
Water Department	5026 59
Sewer Department	2960 15
Abbott Village Sewer Assessments	6504 50
Water Bond Premium	50 78
Sewer Bond Premium	151 16
	\$496060 80

Richardson Fund—Frye Village School

DR.

Balance, January 1, 1916	\$1123 52	
Andover Savings Bank, Interest	45 36	
	<hr/>	\$1168 88

CR.

Deposit, Andover Savings Bank	1168 88	
	<hr/>	1168 88

Draper Fund

DR.

Balance, January 1, 1916	1122 67	
Andover Savings Bank, Deposit	45 34	
	<hr/>	1168 01

CR.

Emily F. Carleton	1 00	
Deposit, Andover Savings Bank	1167 01	
	<hr/>	1168 01

Edward Taylor Fund

DR.

Balance, January 1, 1916	229 35	
Andover Savings Bank, Interest	9 24	
	<hr/>	238 59

CR.

Deposit, Andover Savings Bank	238 59	
	<hr/>	238 59

Varnum Lincoln Spelling Match

DR.

Balance, January 1, 1916	\$521 24	
Andover Savings Bank, Interest	20 24	
	<hr/>	541 48

CR.

J. F. Allison, Superintendent of Schools	20 00	
Deposit, Andover Savings Bank	521 48	
	<hr/>	541 48

Isaac E. Giddings Burial Ground Fund

DR.

Balance, January 1, 1916	1000 00	
Andover Savings Bank, Interest	40 40	
	<hr/>	1040 40

CR.

F. L. Brigham, Treas. South Cemetery	40 40	
Deposit, Andover Savings Bank	1000 00	
	<hr/>	1040 40

Cemetery Funds

DR.

Balance, January 1, 1916	15752 40	
Interest, Andover Savings Bank	656 46	
Deposits for Perpetual Care	1350 00	
Andover National Bank Stock	200 00	
Andover National Bank Dividends	12 00	
	<hr/>	18022 86

CR.

Paid for Care of Lots	629 00	
Deposits, Andover Savings Bank	17137 86	
Andover National Bank Stock	200 00	
Cash	56 00	
	<hr/>	18022 86

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$31448 45
High School Fund	69907 63
	<hr/>
	\$101356 08

NESBIT G. GLEASON
JOHN S. ROBERTSON
WALTER H. COLEMAN

Auditors

RECOMMENDATIONS OF FINANCE COMMITTEE

The following is a list of appropriations recommended by the Finance Committee for 1917.

Almshouse expenses	\$ 4500 00
Almshouse repairs	250 00
Relief out of Almshouse	4300 00
Aiding Mothers with Dependent Children	500 00
Board of Health	2000 00
Brush Fires	800 00
Fire Department, running expenses and new hose	9200 00
Hay Scales	125 00
Highway Department, sidewalks, snow (Also St. Railway Tax and Street Sprinkling)	28000 00
Insurance	1900 00
Insurance (Workmen's Compensation)	1600 00
Interest	17000 00
Memorial Hall Library	1800 00
Memorial Day	350 00
Post 99, G.A.R.	100 00
Miscellaneous	2000 00
Parks and Playsteads	1500 00
Police	5000 00
Printing and Stationery	1200 00
Public Dump	75 00
Retirement of Veterans, Acts 1912	300 00
Redemption of Water Bonds	12949 22
Redemption Punchard School Bonds	2861 89
Redemption Andover Loan Act Bonds	5000 00
Schools	52500 00
Sewer Department Maintenance	2500 00
<i>Amount carried forward</i>	<hr/> \$158311 11

<i>Amount brought forward</i>	\$158311 11
Sewer Department Sinking Fund	1000 00
Soldiers' Relief	900 00
Spring Grove Cemetery	2500 00
(And receipts from sale of lots)	
State Aid	1300 00
Street Lighting	6500 00
Town Officers	6700 00
Town House	2000 00
Tree Warden, Gypsy and Browntail Moth Dept.	3500 00
Water Department	
Maintenance	11000 00
Construction	1500 00
Sinking Fund	750 00
Total	<hr/> \$195961 11

The Finance Committee is also required to make recommendations to the voters in regard to all articles in the Town Warrant involving the expenditure of money. The committee, therefore, makes the following recommendations:—

- Article 4. Approved.
- Article 5. Recommended that the town appropriate \$2500.00 provided the State and County each appropriate a like sum.
- Article 6. Approved.
- Article 8. Not approved.
- Article 9. Not approved.
- Article 10. Approved.
- Article 11. Not approved.
- Article 12. Not approved.

- Article 13. Not approved.
Article 14. Approved, the appropriation of \$200 recommended.
Article 15. Approved.
Article 16. Referred to Lighting Committee.
Article 17. Referred to Lighting Committee.

HARRY M. EAMES
GEORGE ABBOT
HENRY W. BARNARD
SAMUEL H. BOUTWELL
CHESTER W. HOLLAND
JOHN H. CAMPION
WALTER M. LAMONT
BARNETT ROGERS
JOHN C. ANGUS

Finance Committee

TOWN WARRANT

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of
Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the fifth day of March, 1917, at 6 o'clock A.M., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Trustee of Memorial Hall Library for four years, one Trustee of Memorial Hall Library for two years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, one Trustee of Spring Grove Cemetery for two years to fill vacancy, Fence Viewers, Pound Keeper, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall

Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will raise and appropriate the sum of \$10,000 and authorize the High School Building Committee to expend the same to build a passageway between the old and new Punchard buildings and to make further improvements on the old Punchard building and to provide additional equipment, upon recommendation of the High School Building Committee.

Article 5.—To see if the Town will appropriate a sum of money not exceeding \$5000.00 to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, together with the unexpended appropriation of 1916, on petition of the Board of Public Works.

Article 6.—To see if the town will appropriate the sum of \$3000 for additions to the filter beds as ordered by the State Board of Health, on petition of the Board of Public Works.

Article 7.—To hear and act upon the report of the Committee on Building Laws and to pass any by-laws on that subject.

Article 8.—To see if the town will authorize the Board of Public Works to establish a service for the removal of ashes and garbage from dwellings, stores, etc., in the central section of the town, partial payment for such service to be secured by a reasonable assessment upon owners of property benefited, and the balance to be paid by the town, and to appropriate \$1500 therefor.

Article 9.—To see if the town will vote to authorize the Board of Public Works to construct a gate to close the underground drain of the playstead during the winter months in order to form

a skating-pond and appropriate the sum of one hundred dollars for the same, upon petition of W. E. Lombard and others.

Article 10.—To see if the town will appropriate the sum of \$2000 for the purpose of installing an electric engine in the pumping station on Bancroft Road, on petition of the Board of Public Works.

Article 11.—To see if the town will appropriate a sum not exceeding \$4000 for the purpose of building a concrete bridge across the Shawsheen River on Central Street, on petition of the Board of Public Works.

Article 12.—To see if the town will vote to extend the Water System from its present terminal on Lowell Street a distance of 5600 feet to Brown Street, then 3900 feet on Brown Street, on petition of Charles W. Livingston and others, and appropriate \$11,500 for same.

Article 13.—To see if the town will install water-pipes in Chandler Road from the hydrant now located in Chandler Road opposite the Kasabian Farm, in a general northwesterly direction along Chandler Road to the Railroad bridge, and also to install water-pipes from the junction of Beacon Street and Chandler Road in a general northeasterly direction to the Keating place and to appropriate a sum of money therefor.

Article 14.—To see if the town will vote to establish a fire alarm box on Main Street, at a point between the properties of the Tyer Rubber Company and Dionisio Michellini, or thereabouts, on petition of Dionisio Michellini and others, and appropriate a sum of money therefor.

Article 15.—To see if the town will vote to extend the sewer on Summer Street from Pine Street to a point 1400 feet distant, and appropriate the sum of \$3000, the same to be expended under the direction of the Board of Public Works and to assess betterments upon the estates benefited by the said extension, on petition of the Board of Health.

Article 16.—To see if the town will vote to place an electric light on this side of the residence of David Cunningham on

Shawsheen Road and appropriate a sum of money therefor, on petition of David Cunningham and others.

Article 17.—To see if the town will vote to place an electric light in front of Indian Ridge School on Cuba Street and appropriate a sum of money therefor, on petition of James A. Nolan and others.

Article 18.—To see if the town will vote to accept the provision of Section 37, Chapter 19, of the revised laws, in so far as it relates to the regular and permanent Police force of the Town of Andover.

Article 19.—To see if the town will vote to amend its by-laws by inserting under Article 4 thereof the following section to be numbered 12.

(12) The selectmen may license suitable persons as junk collectors, to collect by purchase or otherwise, junk, old metals, and second-hand articles from place to place in the town of Andover. Said licenses shall be granted on or before the first day of May in each and every year. No license as a junk collector shall be issued to a person who is not a citizen of the United States. Licenses for the collection of junk may be issued as aforesaid to persons who do not reside within the Town of Andover, but the number of such non-resident licenses shall not exceed one to every two thousand of the population as ascertained by the next preceding official census. The fee for licenses for the collection of junk shall be as follows:—

Resident collectors	\$ 5.00
Non-resident collectors	\$25.00

Article 20.—To fix the pay of the firemen for the ensuing year.

Article 21.—To determine the method of collecting the taxes for the ensuing year.

Article 22.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 23.—To determine what disposition shall be made of unexpended appropriations.

Article 24.—To act upon the report of the Town officers.

Article 25.—To determine the amount of money to be raised by taxation the ensuing year.

Article 26.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by the By-laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this nineteenth day of February, A.D. 1917.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

REPORT OF STREET LIGHTING COMMITTEE

For the Year Ending Decmber 31, 1916

To the Citizens of the Town of Andover.

When your committe was authorized at the March Town Meeting to enter into a new contract with the Lawrence Gas Company, on the expiration of the three-year contract then in force, which would expire by limitation on March 31st, and on being granted this authority, was especially instructed to use its best efforts towards prevailing upon the Gas Company to put its wires underground through Andover Square, little did any member of the committee, and surely no one of our citizens, realize the task which was to be undertaken.

A meeting was held on March 15th, when the entire situation was discussed, and at the invitation of the Committee a representative of the Gas Company was present at the meeting, which followed on March 23rd.

Mr. C. J. R. Humphreys, vice-president and agent of the Lawrence Gas Company, was quite willing to extend for a period of three years the contract then in effect, without demanding an increase in rates, as might have been expected in view of the increased costs in production, but absolutely refused to yield to the demands of the Committee that all wires owned or controlled by the Gas Company between the Memorial Hall and Chestnut Street be put underground, and, further, that the poles supporting these wires be removed. The chief objections raised by Mr. Humphreys may be summed up as follows:—

1st. The two most hideous poles, and consequently most offensive, the one near the Memorial Hall and the one near Mr. Champion's store, were owned by the New England Telephone and Telegraph Company.

2nd. The elimination of poles in Andover Square would mean the dis-arrangement of the Fire Alarm System, causing the town much annoyance and expense.

3rd. The excessive cost of material, particularly wire, due to the very great advance in the price of copper and spelter, made the cost of installation prohibitive. This cost was first estimated by Mr. Humphreys to be \$10,000.00, but after a careful survey we were informed that the demands of the Committee could not be met without the expenditure of at least \$20,000.00.

Meeting after meeting, together with much correspondence, followed, and as the weeks lengthened into months it seemed as if the deadlock would never be broken.

Mr. Humphreys, always courteous and ready to consider any proposition, gave much time and thought to our demands. On the other hand, the Committee were by no means idle. It was pointed out to Mr. Humphreys that property owners using electricity had had two voluntary reductions in the price of current during the past six years — first from 14 cents to 13 cents, and recently from 13 cents to 12 cents — or approximately 14%, whereas the town during this period had received concessions amounting to less than 1%. In reply Mr. Humphreys pointed out that the Gas Company had heretofore met the demands of the Committee without question, extending its lines in many directions to outlying districts at much expense, and had received little in return for this outlay; had greatly improved its service and was now giving the town without additional expense incandescent lamps of sixty candlepower, in place of the twenty-five candlepower lamps, which were considered satisfactory some years ago.

While these statements could not be denied, it was learned on good authority that the present sixty candlepower lamp takes considerably less energy, and consequently little, if any, more expense to maintain than the twenty-five candlepower carbon lamp formerly used.

In the matter of putting the wires underground, however, the Committee could get little or no encouragement from any source whatever. The officials of the Edison Company, when interviewed, stated that practically all underground work had been stopped on account of the high cost of material.

Two members of our committee met by appointment Chairman Weed of the Gas and Electric Light Commission, but could get

no help from this source, as the Commission exercises no jurisdiction over underground construction, and it was suggested that we appeal to the Legislature. An investigation, however, satisfied us that this would be fruitless, as we were informed that a bill presented earlier in the year for certain underground work in the city of Lawrence had been killed in the Committee without so much as being debated in the House.

Finally, the Committee arranged with an expert to investigate, and report on the cost of underground construction in the section referred to, and while the figures submitted were considerably lower than those given us by Mr. Humphreys, the Committee came to the conclusion that it was an inopportune time to demand the elimination of all poles, and the burying of all wires in Andover Square which were owned or controlled by the Lawrence Gas Company.

While these negotiations were in progress much had been said about better lighting in Andover Square, for when the stores are closed the three arc lamps give very little light to the area which they are intended to cover, and in consequence complaints have been many.

It was therefore decided that if a contract could ever be agreed upon the same should include fifteen or sixteen incandescents of 250 candlepower each, which Mr. Humphreys had agreed to furnish at a cost of \$43.00 each per year, to be placed in the Square at points fixed upon by the Committee. In order to bring this within the appropriation Mr. Humphreys voluntarily agreed to reduce the price of incandescents lamps (273) from \$16.00 to \$15.00 per year.

The Committee then insisted that these high-powered lamps be mounted on attractive poles, fitted to receive underground wires, with no *cross arms*, and that all wires leading to and from these poles be put *underground*. This brought about another deadlock, which lasted until late in August. The Committee, however, felt that the stand taken by them was consistent, and that if it was ever necessary to bring the matter before a special town meeting they would have the support of the citizens, for if it was the desire to put underground the wires now extending through the Square, surely the people of Andover would never

allow fifteen or sixteen additional poles to be erected, with wires carrying high-powered current strung along both sides of Main Street, and around the Square.

In justice to Mr. Humphreys it should be said that in his desire to meet the views of the Committee he prevailed upon his associates to grant these concessions, and at a meeting held on August 30th the negotiations were finally concluded. The request of Mr. Humphreys that a five-year contract be drawn up was granted, and was subsequently signed; the same dating from April 1st, 1916.

According to the plans, the 250-candlepower incandescent lamps, sixteen in number, are to replace the three arc lamps in the Square and on Main Street between the Square and Chestnut Street, and are to be located as follows:—

To encircle the Square with eight of these lamps; then beginning with No. 9, to place the same at a point near the corner (nearest the Square) of building owned by W. A. Allen; No. 10 to be placed diagonally across the street, about half-way between No. 9 and No. 11; the latter being at the corner of Barnard's Block; No. 12 to be on the opposite side of Main Street, half-way between No. 11 at the corner of Main and Park Streets, and No. 13, which is to be on the corner of Main and Barnard Streets. This leaves three lamps to be placed farther up Main Street, as equally distant one from the other as conditions will permit.

No. 15 will be about half-way between No. 13 and the corner of Main and Chestnut Streets, near the entrance to the Arco Building; No. 14 to be on the opposite side, half-way between No. 13 and No. 15, while No. 16 will be on the westerly side of Main Street, near the Swift estate, at about the same distance from No. 14 as this lamp is from No. 12.

Although this means an additional expense to the town, the reduction of \$1.00 each in the cost of the 60-candlepower incandescents means a saving to the town of \$273.00 per year, and enables the Committee to meet the additional expense of the 250-candlepower lamps, without adding materially to the amount to be appropriated for 1917.

The cost according to the present layout will be as follows:—

273 incandescents	at \$15	\$4095
29 arcs	at \$68	1972
16 250-candlepower incandescents	at \$43	688
7 incandescents ordered but not yet installed	at \$15	105
		<hr/>
		\$6860
Less 5 arcs to be removed		340
		<hr/>
		\$6520

Unfortunately the permit granted by the Selectmen for the erection of the poles on which the 250-candlepower lamps will be placed was received too late (December 4th) to permit the laying of the underground conduits before the frost set in, notwithstanding the fact that at the hearing held on *October 24th* there was no opposition.

We understand the delay was due to the desire on the part of the Gas Company to erect wooden poles, whereas the Board felt that the town could rightfully insist on iron poles, or iron standards with extensions of wood, to imitate iron, and the permit when finally issued so specified.

While we do not question the position of the Board, which we have no doubt was fully justified, it is nevertheless to be regretted that the permit could not have been issued earlier, for the Committee was making every effort to give the town the benefit of these lights during the past winter, when on account of the short days and bad weather the same were so much needed.

Owing to the uncertainty attending the new contract, only five incandescents were added in 1916, whereas nineteen new lights were installed in 1915.

It will not do, however, to lose sight of the fact that the town is poorly lighted, and that our taxpayers have a right to a certain number of extensions each year.

Furthermore, it is the belief of the Committee that newly settled sections which are responsible for an increase in taxes, in some cases amounting to several hundred dollars yearly, are

in return entitled to a light, the cost of which is but \$15.00 per year.

Your Committee realizes, however, that there are many demands on the town, and in view of the very favorable contract entered into with the Lawrence Gas Company we feel that for this year, at least, we can meet all pressing needs with the same appropriation as last year, viz., \$6500.00

Respectfully submitted,

BARNETT ROGERS
COLVER J. STONE
W. H. COLEMAN
H. J. GARDNER
CHAS. B. BALDWIN

Street Lighting Committee

PUNCHARD FREE SCHOOL

REV. E. VICTOR BIGELOW	MYRON E. GUTTERSON
REV. C. W. HENRY	HARRY H. NOYES
REV. NEWMAN MATTHEWS	HARRY M. EAMES
S. H. BOUTWELL	FRANK T. CARLTON

Trustees

REPORT OF TREASURER

1916

PRINCIPAL FUND

January 1st

Cash in Bank	\$ 465 53	
Real Estate, Mortgages and Bonds	75988 75	
	<hr/>	\$76454 28

December 31st

Cash in Bank	\$ 4334 97	
Real Estate, Mortgages and Bonds	72119 31	
	<hr/>	\$76454 28

January 1st

Cash in Bank	\$ 465 53	
Mortgages paid during year	6069 44	
	<hr/>	\$ 6534 97

December 31st

Investment in new mortgages	\$ 2200 00	
Cash in Bank	4334 97	
	<hr/>	\$ 6534 97

INCOME

January 1st

Cash in Bank	\$ 1689 93	
Interest on Mortgages and Bonds	3630 59	
	<hr/>	\$ 5320 52

EXPENDITURES

N. C. Hamblin	\$ 800 00	
Edna G. Chapin	865 00	
Helen M. Dunn	850 00	
Percival M. Symonds	895 00	
Insurance	25 00	
Andover National Bank—Deposit box	5 00	
Harry H. Noyes, Treasurer	200 00	
N. C. Hamblin—Travel	21 00	
Balance in Bank	1659 52	
	<hr/>	\$ 5320 52

BARNARD FUND

January 1st		
Cash in Bank	\$25 50	
Dividends	40 00	
	<hr/>	\$65 50
Prizes awarded		
First—Ruth Elizabeth Abbott, '16	\$20 00	
Second—Gertrude Wells Berry, '16	12 00	
Third—Horace Holbrook Dodge, '17	8 00	
Cash in Bank	25 50	
	<hr/>	\$65 50

DRAPER FUND

January 1st		
Cash in Bank	\$1361 58	
Dividends	\$ 54 98	
	<hr/>	\$1416 56
December 31st		
Cash in Bank	\$1416 56	\$1416 56

GOLDSMITH FUND

Cash in Bank	\$252 00	
Dividends	10 18	
	<hr/>	\$262 18
Prizes awarded		
Girl's Prize—Vera Leslie, '18	\$ 5 00	
Boy's Prize—William Rollins Brewster, '17	5 00	
Cash in Bank	252 18	
	<hr/>	\$262 18

HARRY H. NOYES

Treasurer

Examined and found correct.

HARRY M. EAMES

FRANK T. CARLTON

Auditors

MEMORIAL HALL LIBRARY

FORTY-FOURTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

The Trustees of Memorial Hall Library, submit herewith to the town, their annual report, and that of the Librarian, for the year 1916.

The Trustees desire to make use of this opportunity to express publicly their deep appreciation of the unique and valuable service of two members removed during the past year from their number, Mr. John Alden and Rev. C. C. Carpenter, the former by death, the latter by resignation. The town has been indeed fortunate to have had the services of two such intelligent and public-spirited men. They have proved themselves through long periods of service wise counselors, unselfish administrators of an important public trust, and model citizens.

The influence of a well managed and efficient library on the ideals and civic life of such a town as Andover cannot easily be measured. Too frequently it is carelessly ignored. That such an influence is deep and far-reaching is, however, clearly recognized by every thoughtful citizen.

In order that the library may continue to render its proper service to the community it serves and may meet satisfactorily the increasing demands of a growing town, it must not be prevented from attaining a normal growth and development. Facilities that may have been adequate twenty years ago will not meet the needs of the present day; and yet with the passing years the limited accommodations available for library uses in Memorial Hall have undergone little if any change. Shelves for the accommodation of even such books as are in constant demand are wholly inadequate. Reading-room facilities are in-

creasingly cramped and from their nature incapable of supplying that atmosphere of quiet and relaxation so essential to the free and stimulating use of such opportunities as the library should naturally afford. We believe that the town owes it to its present and its future citizens to give most earnest and careful consideration to the urgent needs of its library and to provide in the immediate future for the enlargement of the present building.

E. KENDALL JENKINS
FREDERIC S. BOUTWELL
GEORGE F. SMITH
ALFRED E. STEARNS
BURTON S. FLAGG
WILLIAM H. RYDER
NATHAN C. HAMBLIN

Trustees

TRUSTEES OF MEMORIAL HALL LIBRARY
In account with the Town of ANDOVER, MASS.

RECEIPTS

Balance from last year	\$3,412 59
Town appropriation	1,800 00
Dog tax	596 44
Income from investments	3,230 00
Fines	151 35
Cash for lost books	6 78
Gifts	5 00
Sale of old furnace	10 00
Middleton bequest	200 00
	<hr/>
Total	\$9,412 16

EXPENDITURES

Salaries	\$3,415 05
Lighting and heating	514 83
Periodicals	174 90
Bookbinding	267 13
Books	876 02
Invested	1,000 00
Sundry items	713 15
Cash on hand	2,451 08
	<hr/>
Total	\$9,412 16

Statement of Income and Expenses of the Trustees of Memorial Hall Library for the Year of 1916

INCOME

	Maint.	Books	Cornell	Total
Income from investments	\$2106 12	\$703 48	\$420 40	\$3230 00
Town appropriation	1800 00			1800 00
Dog tax	596 44			596 44
Lost books repaid		6 78		6 78
Fines	151 35			151 35
Sale of furnace	10 00			10 00
Gifts		5 00		5 00
Middleton bequest		200 00		200 00
Total	<u>\$4663 91</u>	<u>\$915 26</u>	<u>\$420 40</u>	<u>\$5999 57</u>

EXPENDITURES

Salaries	\$3296 75		\$118 30	\$3415 05
Lighting and heating	403 66		111 17	514 83
Periodicals	174 90			174 90
Bookbinding	267 13			267 13
Books		876 02		876 02
Sundry items	712 45		70	713 15
Total	<u>\$4854 89</u>	<u>\$876 02</u>	<u>\$230 17</u>	<u>\$5961 08</u>
Unexpended income	\$*190 98	\$39 24	\$190 23	\$38 49
*Deficit for one year				

Condition of Funds and Unexpended Income on hand Jan., 1917

	Funds	Unex. Inc.
Maintenance fund	\$46600 00	\$1017 92
Book funds (general)	13600 00	529 92
Book funds (special)	3200 00	153 22
Cornell fund (permanent)	5000 00	293 58
Cornell fund (purchase)	3700 00	250 35
Special		64 94
	<u>\$72100 00</u>	<u>\$2309 93</u>

INVESTMENTS

Bangor & Aroostook R. R. 4s	\$11000 00
Boston Elevated Ry. Co. 4½s	1000 00
Boston Elevated Ry. Co. 4s	10000 00
Chicago Railways Co., 5s	9962 50
Montreal Tramways Co., 5s	9962 50
Michigan State Tel. Co., 5s	4981 25
Boston & Maine R. R., 4s	2000 00
Boston & Albany Equip. Trust, 4½s	2981 10
Pacific Tel. & Tel. Co., 5s	1000 00
Mortgage on real estate, 5%	4000 00
Savings Banks	14500 00
Am. Tel. & Tel. Co., 4 shares	571.50
Principal cash	141.15
	<hr/>
Total	\$72100 00
Income cash on hand	\$ 2309 93
Principal cash on hand	141 15
	<hr/>
Total	\$ 2451 08

FREDERIC S. BOUTWELL, *Treasurer*

I certify that I have examined and found correct the above statements as of January 15, 1917, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash on deposit as shown has been verified and found correct.

BURTON S. FLAGG

Auditor

Jan. 26, 1917

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the library for the twelve months ending December 31, 1916.

The circulation for the year is 40,377 volumes as opposed to 41,627 for 1915. The difference is due to a drop at Ballardvale and to the fact that the school libraries, usually in commission at the beginning of the term have not been used this fall. The actual difference in circulation at the Memorial Hall Library itself is but 101 less books than for 1915.

The reference use of the library continues large. During the autumn various purchases were made in order to provide the books wanted for the winter's study by different clubs in town. There was unusual interest in modern drama, and the library obtained a quantity of popular and valuable material, not only for the clubs, but for the many interested in the White Fund lectures to be given in Lawrence upon Maeterlinck.

The High school use is especially satisfactory. During the coming year it is planned to carry out a system of instructing the students in the use of the library, especially in the use of reference books. Too many boys and girls reach the High school with but the crudest ideas of the difference between a dictionary and an encyclopedia. This instruction will be counted as school work and each division will come to the library in charge of a teacher. Our very limited quarters will make this difficult both for the students and the general public, but the inconvenience will have to be endured by both until we have the proper facilities for such enterprises.

The use of the library by the grade schools has been much less than usual this fall, probably due to changes in methods. The children use the reading-room just as much for recreation but come less for help in school work.

The year just past has brought us a number of appreciated gifts. From the estate of Mrs. Middleton we received the sum of two hundred dollars in memory of her husband, David Middleton, one of the original trustees of the library. It was decided to expend this bequest in the purchase of reference books and Rev. James H. Ropes personally provided a book-plate to mark these books. The new edition of the New International Encyclopedia was the first purchase from this fund.

Another valuable gift was the Catholic Encyclopedia, presented by the local chapter of the Knights of Columbus. This is an extremely scholarly work and one of great value to students and research workers. To add to our shelves in one year both these encyclopedias is a matter of congratulation for the town.

The Andover Village Improvement Society set out in the early summer three young maples along the top of the terrace on North Main Street. When grown, these will be a great addition to the grounds and will not interfere in the least with an extension of the building in that direction, care having been taken to plant them where they will never have to be disturbed.

There have been other appreciated gifts of books. Mrs. Andrew Lawrie gave to the reading-room an interesting head of Dante; Rev. F. A. Wilson contributed several potted plants and we have had our usual tribute of flowers as early and as long as any appeared in the gardens of Andover.

At Ballardvale, the Ballardvale Improvement Society, with the co-operation of the Trustees, graded, seeded and greatly improved by the construction of neat walks, the grounds about the building where the branch library has its room. The locality is transformed and when shrubs are planted another year, the Vale may well feel proud in possessing so attractive a setting for its pleasant little library.

The library room itself has been much improved by the erection of shelving along its north side, the only wall unbroken by windows. This provides space for all the books that the branch is ever likely to need, and greatly adds to the looks of the library. The use of the branch, while less than at the start, is yet large and proves conclusively the appreciation of the village.

Librarians all over the country were asked to unite with the Boy Scouts in celebrating the week of December 4 to 9, as "Good

Book Week," calling attention to good literature, especially good books for children. The exhibit of attractive volumes at the Memorial Hall Library attracted a great deal of attention both from the young people and from their parents. In addition to books meant especially for boys, there were others for children of all ages, varying in price from twenty cents to three dollars. It is never necessary to buy for a child a book just off the press, for the old favorites remain and are often much more wholesome than a recently issued story. It is planned to make this Christmas exhibit an annual feature.

The high cost of paper has had one good effect, of crowding from the market some of the cheap literature, cheap in every sense. Instead of a flood of ill-written, sensational stories, we have a smaller issue, but better worth-while. There has been not only a distinct improvement in the type of fiction printed, but an increased number of good books on history, travel and political economy. The library has taken the opportunity to replace on its shelves worn copies of books possessing lasting value and of duplicating others always in demand. The coming year should see more of this replacement, especially with the children's books. The great care taken by the library in its choice of books is pleasantly reflected in frequent letters from other libraries of the same size, asking advice about purchasing new books and expressing appreciation of our unusually discriminating selection of literature.

Trustees and librarian alike have suffered a great loss in the death of Mr. John Alden, for the past ten years one of the most valued members of the Board. Though a busy man, with many important interests upon his mind, he invariably gave his careful attention to the duties of Chairman of the Book Committee, and in spite of great business responsibilities, had always time to consider library problems not only as a trustee, but as a friend.

We also regret the resignation of Rev. Charles C. Carpenter, for twenty-five years a member of the Board. To his unfailing interest the library owes much, including many books of permanent value added to its shelves, and especially its really fine collection of religious publications, the purchase of which was made possible by the existence of the Phillips Charitable Donation

Fund, which under the will of the Rev. Samuel Phillips, may be expended only for ethical and religious publications.

There is an old proverb that "patient waiters are no losers." For years the library has waited for relief to its cramped quarters, and for a chance to do more for the town. There is also a saying to the effect that there comes a time when patience ceases to be a virtue.

Respectfully submitted,

EDNA A. BROWN,

Librarian

STATISTICS OF THE LIBRARY

JAN. 1, 1916,-DEC. 31, 1916

Number of books issued for home use at Memorial Hall,	33702
Number issued at Ballardvale,	6675
Total,	40377
Percentage of fiction circulated,	70
Percentage of non-fiction circulated,	30
New borrowers registered, 1916,	296
Actual number of cards in use,	2494
Books added by purchase,	732
Books added by gift,	82
Total accessions,	814
Books withdrawn, worn out, etc.	64
Total number of books in library,	23253
Volumes rebound	428
Volumes bound, periodicals, etc.	78

BALLARDVALE

Number of books issued for home use	6675
Percentage of fiction,	83
Percentage of non-fiction,	17
Number of cards in use,	342
Books added during 1916	161
Books now belonging to branch,	1172

GIFTS TO THE LIBRARY

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, from societies, the Andover Village Improvement Society, the Knights of Columbus, and from the following individuals:

Mrs J. N. Ashton; H. H. Atherton; C. K. Bancroft; L. J. Buck; A. B. Carey; Sir Gilbert Parker; W. M. Polk; Mrs. George Ripley; G. B. Ripley; Mrs. Barnett Rogers; G. S. Streeter and Rev. F. A. Wilson.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews
Atlantic monthly
Blackwood's magazine
Bookman
Book review digest
Catholic world
Century
Country gentleman
Christian Endeavor world (gift)
Country life in America
Cumulative book index
Education
Elementary school journal
Etude
Forum
Garden magazine (gift)
Guide to nature (gift)
Harper's magazine
House beautiful (gift)
Independent
International studio (gift)
Ladies' home journal
Library journal
Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
Nation
National geographic magazine
Nineteenth century
North American review
Outing
Outlook
Popular mechanics
Practical engineer

Public libraries
Punch (gift)
Readers' guide to periodical literature
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Something to do
Survey
Woman's Home Companion
World's work
Youth's companion
Andover Townsman
Boston Advertiser
Boston Herald
Boston Transcript
Christian Science Monitor (gift)
Lawrence Telegram
New York Times

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book". Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction, is specially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued ten years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrange-

ment of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

NEW BOOKS ADDED DURING 1916

State and government documents and annual reports received regularly are not listed. Duplicates purchased for replacement or for Ballardvale are also omitted.

GENERAL REFERENCE BOOKS

- | | |
|----------|--|
| 305 A511 | *American yearbook, 1915 |
| 203 C28 | *Catholic encyclopedia. 16 v. |
| 803 M86 | Moulton, C. W. ed. Library of literary criticism. 8 v. |
| 031 N42 | New international encyclopedia. 24 v. |

PERIODICALS

- | | |
|-----------|--|
| 051 R32 | American monthly review of reviews, v. 53. |
| 051 A881 | Atlantic monthly, v. 117. |
| 052 B56 | Blackwood's Edinburgh magazine, v. 199. |
| 051 B64 | Bookman, v. 42, 43. |
| 051 C33 | Century, v. 91. |
| 705 C84 | Craftsman, v. 28. |
| 370.5 E25 | Education, v. 35. |
| 370.5 E39 | Elementary school teacher, v. 16. |
| 051 F77 | Forum, v. 55. |
| 716 G16 | Garden magazine, v. 23. |
| 051 H23 | Harper's magazine, v. 131, 132. |
| 705 H81 | House beautiful, v. 39. |
| 051 I38 | Independent, v. 85, 86. |
| 705 I61 | *International studio, v. 58. |
| 051 L71 | Littell's living age, v. 288, 289. |
| 071 N21 | Nation, v. 102. |
| 910.5 N21 | National geographic magazine, v. 28, 29. |
| 052 N62 | Nineteenth century, v. 79. |
| 051 N81 | North American review, v. 203. |
| 799.5 O94 | Outing, v. 67. |
| 051 O94 | Outlook, v. 112, 113. |
| 621 P81 | Popular mechanics, v. 25. |
| 051 S147 | St. Nicholas, v. 42, 43, pt. 1. |
| 370.5 S35 | School arts magazine, v. 15. |
| 605 S416 | Scientific American, v. 114. |
| 051 S434 | Scribner's magazine, v. 59. |
| 305 S96 | Survey, v. 34, 35. |
| 051 W89 | World's work, v. 30, 31. |

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

- | | |
|-----------|---|
| 269 A37 | Alexander, J. L. ed. Sunday school and the teens. |
| 172.4 A23 | Adler, Felix. World crisis and its meaning. |
| 268 A86 | *Athearn, W. S. The church school. |

*Gifts

261 A87	Atkinson, H. A. Church and the people's play.
225 B14	Badé, W. F. Old Testament in the light of to-day.
244 B15	*Bailey, A. E. On Nazareth hill.
173 B46	Betts, G. H. Fathers and mothers.
204 B56	Black, Hugh. The new world.
268 D22b	Danielson, F. W. Lessons for teachers of beginners.
226 D85	DuBose, W. P. Gospel in the gospels.
177 E26	Edwards, Agnes. House of friendship.
237 F78	*Fosdick, H. E. Assurance of immortality.
248 F78m	*Fosdick, H. E. Manhood of the Master.
248 F78p	*Fosdick, H. E. Meaning of prayer.
248 F78s	*Fosdick, H. E. The second mile.
252 G45c	Gladden, Washington. Commencement days.
204 G65a	Gordon, G. A. Aspects of the infinite mystery.
173 G92s	Gruenberg, S. M. Sons and daughters.
131 H14	Hall, H. J. The untroubled mind.
220 H91	Hunting, H. B. Story of our Bible.
252 J13	Jackson, F. J. F. Faith and the war.
226 K41a	Kent, C. F. Work and teachings of the apostles.
220.9 K41t	Kent & Jenks. Testing of a nation's ideals.
177 K75	Knott, L. A. Vesper talks to girls.
268 L43s	Lawrance, Marion. Special days in the Sunday school.
268 M13	McCormick, William. Fishers of boys.
174 M17	MacGregor, T. D. Book of thrift.
268 M19	McKeever, W. A. How to become an efficient Sunday school teacher.
266 M19	Mackenzie, J. K. Black sheep.
174 M33v	Marden, O. S. Victorious attitude.
266 M85s	Mott, J. R. Strategic points in the world's conquest.
268 P32	Peabody, E. C. Lives worth living.
170 P97	Purinton, E. E. Efficient living.
367 R39	Richardson & Loomis. Boy scout movement applied by the church.
220.9 R44	Rihbany, A. M. The Syrian Christ.
221 S65	Smith, N. A. Old old tales from the old old book.
150 S66	Smyth, Newman. Meaning of personal life.
232 S87	Stokes, A. P. What Jesus Christ thought of himself.
281 T33	Thatcher, O. J. Sketch of the history of the apostolic church.
131 W17p	Walton, G. L. Peg along.
268 W46	*Wells, A. R. Successful Sunday school superintendent.

GENERAL ECONOMICS

658 A43	Allen, F. J. Business employments.
355 A56	Andrews, L. C. Fundamentals of military service.

- 396 B45 *Bernbaum, Ernest, ed. Anti-suffrage essays by Massachusetts women.
- 361 B63 Boardman, M. T. Under the Red Cross flag at home and abroad.
- 336 D51 Dewey, D. R. Financial history of the United States.
- 365 D74 Doty, M. Z. Society's misfits.
- 365 F45 Field, A. P. L. Story of Canada Blackie.
- 341.7 F52 Fish, C. R. American diplomacy.
- 347 F82 Fowler, N. C. How to obtain citizenship.
- 327 H25m Hart, A. B. The Monroe doctrine.
- 353 H55c Hill & Davis. Civics for new Americans.
- 658 K21 Kearney, L. C. What every business woman should know.
- 321 M14 MacDonald, J. A. Democracy and the nations.
- 327 R67f Roosevelt, Theodore. Fear God and take your own part.
- 658 S63 Smart, W. K. How to write business letters.
- 331.8 W14 Wald, L. D. House on Henry Street.

BOOKS ON EDUCATION

(Purchased from the Phillips Fund for Books for Teachers)

- 371 C94 Curtis, H. S. Education through play.
- 371 D51 Dewey, J. & E. Schools of to-morrow.
- 510 D72 Dooley, W. H. Vocational mathematics.
- 028 F29 Fay & Eaton. Instruction in the use of books and libraries.
- 425 H14 Hall, F. H. A B C of correct speech
- 373.42 H32 Hay, Ian, pseud. Lighter side of school life.
- 370 H38e Henderson, C. H. Education and the larger life.
- 379 H58 *Hinchman, W. S. American school.
- 028.5 H91 Hunt, C. W. What shall we read to the children?
- 373 J64m Johnston, C. H. Modern high school.
- 373 J88 Judd, C. H. Psychology of high school subjects.
- 371.4 L48p Leavitt & Brown. Prevocational education in the public schools.
- 373 L64s Lindsay, Maud. Story-teller.
- 370 M78 Moore, E. C. What is education?
- 514 O51 *Olney, Edward. Elements of trigonometry.
- 803.5 P16 Painton, E. F. A. U. The commencement manual.
- 371 S63 Sleight, W. G. Educational values and methods.
- 808.9 S67 Snow, W. L. ed. High school prize speaker.

NATURE BOOKS

- 588.2 D92 Dunham, E. M. How to know the mosses.
- 595.7 F11h Fabre, J. H. C. The hunting wasps.
- 580 K24 Keeler, H. L. Our early wild flowers.

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| 551.5 L86 | Longstreth, T. M. Reading the weather. |
| 581.5 M26 | Maeterlinck, Maurice. Intelligence of the flowers. |

BOOKS ON HYGIENE

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| 617.6 B72 | Brackett, C. A. Care of the teeth. |
| 614.8 E42 | Eliason, E. L. First aid in emergencies. |
| 613 F53 | Fisher & Fisk. How to live. |
| 613 S95 | Summerville, Amelia. Why be fat? |

BOOKS FOR THE HOME AND FARM

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| 728 A79 | Arthur, William. Home builders' guide. |
| 649 C73 | Comstock, Sarah. Mothercraft. |
| 636.8 F74 | *Forbush, E. H. The domestic cat. |
| 645 F81 | Foster, Agnes. Making curtains and hangings. |
| 746 K68mk | Klickmann, Flora, ed. Modern knitting book. |
| 641 N36 | Nesbitt, Florence. Low-cost cooking. |
| 638 P54 | Phillips, E. F. Bee keeping. |
| 640 R393 | Richardson, A. S. Adventures in thrift. |
| 716 S54 | Shelton, Louise. Continuous bloom in America. |
| 728 W15 | Wallick, Ekin. Small house for a moderate income. |
| 635 W34 | Watts, R. L. Vegetable garden. |
| 641 W67d | Williams, Florence. Dainties for home parties. |
| 728 W93 | Wright, Richardson. Suburban homes. |

BOOKS ON GAMES AND AMUSEMENTS

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| 797 B22 | Bancroft & Pulvermacher. Handbook of athletic games. |
| 796 B55 | Bjurstedt, Molla. Tennis for women. |
| 793 C24 | Carter, E. H. Christmas candles, plays. |
| 793 M19c | Mackay, C. D. Costumes and scenery for amateurs. |
| 793 O43 | Olcott, Virginia. Plays for home, school and settlement. |
| 793 O65 | Ordway, E. B. Handbook of conumdrums. |
| 793 T21 | Taylor, Emerson. Practical stage directing for amateurs. |

BOOKS ON MECHANICAL AND FINE ARTS

- | | |
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| 745 A81 | Ashley, G. P. Raffia basketry as a fine art. |
| 759.5 B81 | Brown & Rankin. Short history of Italian painting. |
| 759.6 D56 | Dieulafoy, Marcel. Art in Spain and Portugal. |
| 778 D41 | Dench, E. A. Making the movies. |
| 608 E22 | Edelman, P. F. Inventions and patents. |
| 694 G87 | Griffith, I. S. Woodwork for secondary schools. |
| 745 H32 | Hayden, Arthur. Chats on old silver. |
| 786 H67p | Hofmann, Josef. Piano playing. |

604 H95	Husband, Joseph. America at work.
744 L51	Leeds, C. C. Mechanical drawing.
694 N87h	Noyes, William. Handwork in wood.
782 O65	Ordway, E. B. The opera book.
533.6 T14	Talbot, F. A. Aeroplanes and dirigibles of war.
629.1 V61	Verrill, A. H. A B C of automobile driving.
709 W58	Whitcomb, I. P. Young people's story of art.

LITERATURE, ESSAYS AND POETRY

809.2 A67	Archer, William. Play-making.
822.33 B39	Beeching, H. C. Sonnets of Shakespeare.
821 B79	Brooke, Rupert. Collected poems.
824 B94u	Burroughs, John. Under the apple trees.
809.2 C11	Caffin, C. H. Appreciation of the drama.
820.8 C77p	Cook & Tinker, ed. Select translations from old English poetry.
820.8 C77pr	Cook & Tinker, ed. Select translations from old English prose.
822.33 D98	Dyer, T. F. T. Folk-lore of Shakespeare.
822.33 H24	Harrison, William. Elizabethan England.
822.33 H33	Hazlitt, W. C. ed. Shakespeare's library. 6v.
830.9 H36	Heller, Otto. Studies in modern German literature.
821 J63w	Johnson, R. U. Poems of war and peace.
655 K13	Kane, W. R. 1001 places to sell manuscripts.
827 L46m	Leacock, Stephen. Moonbeams from the larger lunacy.
822.33 L51	Lee, Sidney. Shakespeare and the modern stage.
842 M26a	Maeterlinck, Maurice. Aglavaine and Selysette.
844 M26b	Maeterlinck, Maurice. Buried temple.
842 M26i	Maeterlinck, Maurice. Intruder, etc.
842 M26j	Maeterlinck, Maurice. Joyzelle, Monna Vanna.
842 M26m	Maeterlinck, Maurice. Mary Magdalene.
133 M26o	Maeterlinck, Maurice. Our eternity.
842 M26p	Maeterlinck, Maurice. Pelleas and Melisande.
842 M26pm	Maeterlinck, Maurice. Princess Maleine.
133 M26u	Maeterlinck, Maurice. Unknown guest.
844 M26w	Maeterlinck, Maurice. Wisdom and destiny.
821 M37g	Masefield, John. Good Friday and other poems.
822.33 M37	Masefield, John. William Shakespeare.
822.33 M43	Matthews, J. B. Shakespeare as a playwright.
807 M86	Moulton, R. G. Modern study of literature.
821 M87l	Noyes, Alfred. Lord of misrule, etc.
821 P18	Palmer, A. F. Marriage cycle.
810.9 P27	Pattee, F. L. History of American literature since 1870.
824 P42f	Perry, Bliss. Fishing with a worm.
823 P51a	Phelps, W. L. Advance of the English novel.

821 P54a	Phillips, Stephen. Armageddon.
822.08 P61	Pierce, J. A. ed. Masterpieces of modern drama. 2v.
824 R29co	Repplier, Agnes. Counter-currents.
808.9 S313e	Schauffler, R. H. ed. Easter.
822.33 S44	Seccomb & Allen. Age of Shakespeare. 2v.
824 S53h	Sharp, D. L. Hills of Hingham.
822 S53a	Shaw, G. B. Androcles and the lion, etc.
832 S94m	Sudermann, Hermann. Magda.
832 S94mo	Sudermann, Hermann. Morituri.
832 S94r	Sudermann, Hermann. Roses.
822.08 T33	Thayer, W. R. ed. Best Elizabethan plays.
822.33 T39	Thorndike, A. H. Shakespeare's theatre.
840.9 V74h	Vincent, L. H. Hotel de Rambouillet, etc.
824 W85m	Woodbridge, Elizabeth. More Jonathan papers.
809.2 W98	Wynne, Arnold. Growth of English drama.

BIOGRAPHY

92 A133	Abbott, Lyman. Reminiscences.
92 A159	Abraham, J. J. Surgeon's log.
92 K647	Begbie, Harold. Kitchener, organizer of victory.
920 B72	Bradford, Gamaliel. Union portraits.
92 B791	Brooke, Rupert. Letters from America.
922 B95	Burton, M. E. Comrades in service.
92 H222c	Child, Harold. Thomas Hardy.
92 D512	Dewey, George. Autobiography.
92 E131	Eastman, C. A. From the deep woods to civilization.
92 B286e	Epler, P. H. Life of Clara Barton.
92 B318	Harlow, S. R. Life of S. Roswell Bates.
92 I12h	Heller, Otto. Henrik Ibsen.
92 P853	Hodges, George. Henry Codman Potter.
92 L457	Lazarovich-Hrebelianovich, E. C. Pleasures and palaces.
92 K628p	Palmer, John. Rudyard Kipling.
92 S632	Livingstone, W. P. Mary Slessor of Calabar.
92 B442m	Martindale, C. C. Life of Monsignor R. H. Benson. 2v.
92 P761	*Polk, W. M. Leonidas Polk. 2v.
92 H835r	Richards and others. Julia Ward Howe. 2v.
92 S527s	Smeaton, Oliphant. Shakespeare, his life and work.
92 A568	*Speer, R. E. One girl's influence.
92 M267t	Thomas, Edward. Maurice Maeterlinck.
92 T765	Trudeau, E. L. Autobiography.
	*Vital records of Boxborough, Bridgewater, Burlington.
	Cambridge, New Ashford, Richmond, Salisbury, West-
	ford.

DESCRIPTION AND TRAVEL

- 915.69 B41 Bell, Archie. Spell of the Holy Land.
 914.3 B48 Bigelow, Poultney. Prussian memories.
 917.2 B61 *Blichfeldt, E. H. Mexican journey.
 910 C54f *Clark, F. E. Fellow travellers.
 914.6 C54 Clark, Keith. Spell of Spain.
 919.9 D72 Doorley, G. S. Voyages of the "Morning."
 917.44 F56 *Fitt, A. P. All about Northfield.
 917.2 F85 Franck, H. A. Tramping through Mexico, etc.
 918.2 F86 Fraser, J. F. Amazing Argentine.
 917.2 H12 Hagar, G. J. Plain facts about Mexico.
 917.4 H13 Hale, L. C. We discover New England.
 914.4 H25 Hartt, R. L. Understanding the French.
 915.2 I96 *Iyenaga, Toyokichi. Japan's real attitude to America.
 917.4 J62h Johnson, Clifton. Highways and byways of New England.
 917.422 K55 Kilbourne, F. W. Chronicles of the White Mountains.
 917.3 M89 Muir, John. Thousand-mile walk to the Gulf.
 917.2 O53 O'Shaughnessy, Edith. Diplomat's wife in Mexico.
 808.9 P93 Pringle & Urann. Yule-tide in many lands.
 917.3 R34 Rhodes, Harrison. In vacation America.
 916.8 S43 Scully, W. C. Lodges in the wilderness.
 914.15 S84 Stevenson, B. E. Charm of Ireland.
 917.98 S93 Stuck, Hudson. Ten thousand miles with a dog sled.
 919.9 T84 Turley, Charles. Voyages of Captain Scott.
 917.1 W85 Wood, R. K. Tourist's maritime provinces.
 917.89 Y85 Young, S. H. Alaska days with John Muir.

HISTORY

- 913.3 B22 Banks, E. J. Seven wonders of the ancient world.
 940.9 B61 *Bland, J. O. P. Germany's violations of the laws of war.
 940.9 H32 Hay, Ian. pseud. First hundred thousand.
 940.9 H43 Herrick, Robert. World decision.
 973 J98 Jusserand, J. J. With Americans of past and present days.
 940.9 M14 *MacDonagh, Michael. Irish at the front.
 970.1 P75 Poast, F. M. Indian names, facts and games.
 940.9 P99 Pyke, Geoffrey. To Ruhleben—and back.
 940.9 T33 Thayer, W. R. Germany vs. civilization.
 973.3 T72g Trevelyan, Sir. G. O. George the third and Charles Fox.
 2v.
 940.9 W46 Wells, H. G. What is coming?
 940.9 W85 Wood, E. F. Note-book of an attaché.
 355 W85 Wood, E. F. Writing on the wall.

FICTION

Aldrich, Mildred. Told in a French garden.
Andrews, M. R. S. Old Glory.
Arnim, Gräfin von. Fraulein Schmidt and Mr. Anstruther.
Bank, W. D. Treasure.
Barr, A. E. *Border shepherdess.
Bartlett, F. O. Wall Street girl.
Bates, S. C. Geranium lady.
Bell, J. J. Misadventures of Joseph.
Bennett, E. A. Lion's share.
Bennett, E. A. Man from the north.
Benson, E. F. David Blaize.
Bindloss, Harold. Coast of adventure.
Bosher, K. L. People like that.
Bottome, Phyllis. Dark tower.
Bradley, Shelland. More adventures of an A. D. C.
Brebner, P. J. Master detective.
Brown, Alice. The prisoner.
Buckrose, Mrs. J. E. The roundabout.
Burnham, C. L. Instead of the thorn.
Chittenden, Gerald. Anvil of chance.
Cleghorn, S. N. The spinster.
Cobb, I. S. Old Judge Priest.
Day, Holman. Blow the man down.
Deland, Margaret. Rising tide.
Delano, E. B. June.
Doyle, Sir A. C. Round the red lamp.
Duncan, Frances. Roberta of Roseberry gardens.
Eaton, W. P. Birdhouse man.
Fisher, D. C. Real motive.
Forman, J. M. Twin sisters.
Fuller, Anna. Pratt portaits.
Garland, Hamlin. They of the high trails.
Gielow, M. S. *Light on the hill.
Gilman, D. F. Bloom of youth.
Glasgow, Ellen. Life and Gabriella.
Green, A. K. Filigree ball.
Grimshaw, Beatrice. My lady of the island.
Hannay, J. O. Gossamer.
Hodges, Arthur. Pincus Hood.
Hopkins, W. J. Those Gillespies.
Hough, Emerson. Magnificent adventure.
Howells, W. D. Leatherwood god.
Hughes, Rupert. Clipped wings.
Jacobs, W. W. Sailor's knots.

Johnson, F. K. The beloved son.
 Johnston, Mary. Fortunes of Garin.
 Kellerman, Bernard. The tunnel.
 Kendall, Oswald. Romance of the Martin Connor.
 King, Basil. Side of the angels.
 King, Grace. Pleasant ways of St. Medard.
 Kingsley, F. M. Heart of Philura.
 Lagerlöf, Selma. Emperor of Portugallia.
 Lane, Mrs. John. Maria again.
 Lighton, W. R. Happy Hollow farm.
 Lincoln, J. C. Mary 'Gusta.
 Locke, W. J. Wonderful year.
 Lucas, E. V. Vermilion box.
 Lutz, G. L. H. *Best man.
 McCutcheon, G. B. Mr. Bingle.
 McCutcheon, G. B. The Sherrods.
 MacFarlane, A. E. Behind the bolted door?
 Maher, R. M. Shepherd of the north.
 Marshall, Archibald. Watermeads.
 Martin, G. M. Emmy Lou's road to grace.
 Miller, A. D. Come out of the kitchen.
 Monroe, A. S. Happy Valley.
 O'Brien, E. J. ed. Best short stories of 1915.
 Olmstead, Florence. Father Bernard's parish.
 Onions, Mrs. Oliver. His official fiancée.
 Onions, Mrs. Oliver. In another girl's shoes.
 Oppenheim, E. P. Kingdom of the blind.
 Oxenham, John. Broken shackles.
 Parker, Sir. Gilbert. World for sale.
 Phillpotts, Eden. Good red earth.
 Phillpotts, Eden. Green alleys.
 Phillpotts, Eden. Human boy and the war.
 Pratt, Lucy. Felix tells it.
 Prichard, K. S. Pioneers.
 Prouty, O. H. Fifth wheel.
 Pryce, Richard. David Penstephen.
 Richmond, G. L. S. Under the country sky.
 Rideout, H. M. White tiger.
 Rinehart, M. R. Tish.
 Sherwood, Margaret. Worn doorstep.
 Showerman, Grant. Country chronicle.
 Silberrad, U. L. Co-directors.
 Sinclair, May. The belfry.
 Smith, F. H. & F. B. Enoch Crane.
 Snaith, J. C. The sailor.
 Spearman, F. H. Nan of Music mountain.

Stoothof, Ellenor. The nightingale.
 Strother, E. V. Eve Dorre.
 Tarkington, Booth. Penrod and Sam.
 Tarkington, Booth. Seventeen.
 Tompkins, J. W. Diantha.
 Tompkins, J. W. Seed of the righteous.
 Turnbull, Margaret. Handle with care.
 Vachell, H. A. Spragge's canyon.
 Van Loan, C. E. Buck Parvin and the movies.
 Van Schaick, George. Son of the otter.
 Walpole, Hugh. Gods and Mr. Perrin.
 Walsh, J. H. Cam Clarke.
 Ward, Mrs. M. A. A. Lady Connie.
 Warner, Anne. Susan Clegg and her love affairs.
 Watts, M. S. The rudder.
 Waugh, J. L. Betty Grier.
 Webster, H. K. The real adventure.
 Wells, Carolyn. Curved blades.
 Wells, H. G. Mr. Britling sees it through.
 White, S. E. Gray dawn.
 Whitman, Stephen. Children of hope.
 Wiggins, K. D. Romance of a Christmas card.
 Williams, W. W. Whirligig of time.
 Williamson, C. N. & A. M. Lightning conductor discovers America.
 Willsie, Honoré. Still Jim.
 Wilson, H. L. Somewhere in Red Gap.

CHILDREN'S BOOKS; NON-FICTION

680 A21	Adams, J. D. When Mother lets us carpenter.
92 C873al	Allen, C. F. David Crockett, scout.
973 B19c	Baldwin, James. Conquest of the old northwest.
292 B19g	Baldwin, James. Golden fleece.
92 P427b	Barnes, James. Hero of Erie.
633 B43	Bengston, N. A. Wheat industry.
641 B44f	Benton, C. F. Fun of cooking.
923.5 B57	Blaisdell & Ball. Heroic deeds of American sailors.
942 B57	Blaisdell, A. F. Stories from English history.
92 L134b	Brooks, E. S. True story of Lafayette.
923 B95	Burton, A. H. Four American patriots.
796 C18	Carey, A. C. Scout law in practice.
600 C38	Chase and Clow. Stories of industry. 2v.
523 C69	Collins, A. F. Book of stars.
821.08 C837	Coussens, P. W. comp. Poems children love.
352.3 C88	Crump, Irving. Boys' book of firemen.

808.9 D56t	Dickinson, A. D. comp. Children's book of Thanksgiving stories.
917.19 D96	*Dwight, M. L. Children of Labrador.
917.8 F15	Fairbanks, H. W. Western United States.
320 F46	Field & Nearing. Community civics.
292 G13	Gale, A. C. Achilles and Hector.
821.08 G16	Grahame, Kenneth, comp. Cambridge book of poetry.
973 G93g	Guerber, H. A. Story of the great republic.
793 H14hg	Hall & Perkins. Handicraft for handy girls.
92 P385h	Holland, R. S. William Penn.
551.4 I47	Ingersoll, Ernest. Book of the ocean.
919.8 K13	Kane, E. K. Adrift in the Arctic ice pack.
92 R135k	Kelly, M. D. Story of Sir Walter Raleigh.
746 K68l	Klickmann, Flora, ed. Little girl's knitting & crochet book.
917.19 K51	Koch, F. J. Little journey to northern wilds.
917.94 K51	Koch, F. J. Little journey to our western wonderland.
920 L25	Lang, Mrs. Andrew. Red book of heroes.
973.1 L96	Lucia, Rose. Stories of American discoverers.
398.2 M17	MacGregor, Mary. Stories of King Arthur's knights.
796 M17	McGuire & Matthews, ed. Boy scouts' year book.
973.1 M22	McMurry, C. A. Pioneers of the Mississippi valley.
92 C884m	Marshall, H. E. Story of Oliver Cromwell.
914.7 M72	Mokrievitch, V. deB. When I was a boy in Russia.
92 A354m	Moses, Belle. Louisa May Alcott.
827 O42	Olcott & Pendleton, ed. Jolly book for boys and girls.
821.08 O43s	Olcott, F. J. comp. Story-telling poems.
630 R63	Rogers, J. E. Book of useful plants.
92 H135r	Root, J. C. Nathan Hale.
590 S49a	Seton, E. T. Animal heroes.
590 S49wi	Seton, E. T. Wild animal ways.
398.4 S62	Skinner, E. L. & A. M. comp. Merry tales.
821.08 S84ho	Stevenson, B. E. ed. Home book of verse for young folks.
970.1 S79	Starr, Frederick. American Indians.
537 S14t	St. John, T. M. Things a boy should know about electricity.
654 S14t	St. John, T. M. Things a boy should know about wireless.
398.2 S84	Stevens & Allen. King Arthur stories from Mallory.
973 S87d	Stone & Fickett. Days and deeds a hundred years ago.
92 F959s	Sutcliffe, A. C. Robert Fulton.
942 T16	Tappan, E. M. England's story.
92 A392t	Tappan, E. M. In the days of Alfred the Great.
92 V667t	Tappan, E. M. In the days of Queen Victoria.
740 T33	Thayer, E. R. L. When Mother lets us draw.
398.2 W25	Warren, M. R. King Arthur and his knights.
566 W56	Wheeler, F. Rolt. Monster hunters.
973 W93	Wright, H. C. Children's stories of American progress.

STORIES FOR CHILDREN

- Altsheler, J. A. Last of the chiefs.
Altsheler, J. A. Rock of Chickamauga.
Ashmun, Margaret. Isabel Carleton's year.
Bailey, R. R. Sure Pop and the safety scouts.
Barbour, R. H. Crimson sweater.
Brown, E. A. Archer and the "Prophet."
Brownjohn, John. Adventures of Miltiades Peterkin Paul.
Camp, Walter. Danny Fists.
Chase, M. E. Girl from the Big Horn country.
Claudy, C. H. Partners of the forest trail.
Connolly, J. B. Jeb Hutton.
Daulton, A. M. Marooning of Peggy.
Deland, E. D. Successful venture.
Dimock, A. W. Be prepared.
Dudley, A. T. Unofficial prefect.
Duncan, Norman. Adventures of Billy Topsail.
Eaton, W. P. Peanut, cub reporter.
Eggleston, G. C. Bale marked circle X.
Forrester, I. L. Greenacre girls.
Haskell, H. E. Katrinka.
Hawkes, Clarence. King of the thundering herd.
Hunt, C. W. About Harriet.
Jacobs, C. E. Joan of Juniper Inn.
Jacobs, C. E. Joan's jolly vacation.
Jacobs and Richards. Blue Bonnet keeps house.
Kneeland, C. A. Smugglers' island.
Meigs, Cornelia. Kingdom of the winding road.
Meyer, J. A. Green C.
Ogden, Ruth. Little Pierre and Big Peter.
Peattie, E. W. Lotta Embury's career.
Perkins, L. F. Dutch twins.
Perkins, L. F. Mexican twins.
Piper, M. R. Princess and the clan.
Pyle, Howard. Men of iron.
Remick, G. M. Jane Stuart at Rivercroft.
Remick, G. M. Jane Stuart, comrade.
Seaman, A. H. Sapphire signet.
Thurston, I. T. *Just girls.
Wallace, Dillon. Fur trail adventurers.
Wallace, Dillon. Gaunt gray wolf.
Wallace, Dillon. Ungava Bob.
Wheeler, F. Rolt. Boy with the U. S. Mail.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of the Memorial Hall Library.

Gentlemen: I herewith submit the report of the gallery for the twelve months ending December 31, 1916.

The attendance for the year has been 600. Of the number 146 were adults, and 454 children. The attendance for 1915 was 668. Fully one half of the number of adults visiting the gallery have been strangers. Though many have had only a few minutes to spare they have felt well repaid for the long hurried climb. Many of the townspeople do not realize that *few* towns possess such a collection as Andover owns in the Cornell Art Gallery. People from Lawrence and other cities often emphasize the fact, and query if the people *really* appreciate what it means to have access to such choice reproductions.

When one ponders on the fact that many people frequently visit Boston, but *never* enter the Public Library or Art Museum, one is less surprised at the non-appearance of such people at the gallery. It is a regrettable fact that many of our educated young people deliberately choose the moving picture show when in Boston to the varied forms of art obtainable there. This is also true in town. One is willing to acknowledge that many of the movies present educational features, but taken as a whole, they cannot be called uplifting.

A much-needed improvement to the comfort of the gallery has been supplied in the weather strips for the windows. People occupying the window seats have found them far from comfortable, and will accordingly appreciate the absence of cold air which has been plentiful. It is hoped that 1917 will record an increased attendance at the gallery.

Respectfully submitted

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

SEVENTEENTH ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE TWENTY-EIGHTH ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTIETH
ANNUAL REPORT OF SEWER
COMMISSIONERS

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1916

ANDOVER, MASS.
THE ANDOVER PRESS
1917

WATER COMMISSIONERS

1889—1899

JOHN H. FLINT

*JAMES P. BUTTERFIELD

FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

JOHN L. SMITH

CHAS. E. ABBOTT

1894—1899

*WM. S. JENKINS

JOHN L. SMITH

JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

JOHN H. FLINT

*WM. S. JENKINS

JOHN L. SMITH

*JAMES P. BUTTERFIELD

FELIX G. HAYNES

1903—1906

JOHN L. SMITH

FELIX G. HAYNES

JOHN W. BELL

LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

FELIX G. HAYNES

JOHN W. BELL, Treas.

JAMES C. SAWYER, Secy.

LEWIS T. HARDY

HARRY M. EAMES

1907—1908

FELIX G. HAYNES

JOHN W. BELL, Treas.

JAMES C. SAWYER, Secy.

LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

LEWIS T. HARDY

JOHN W. BELL, Treas.

JAMES C. SAWYER, Secy.

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas.

1914—1916

THOS. E. RHODES, ('17)

BARNETT ROGERS ('16)

*LEWIS T. HARDY, ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1916

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN, ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

SUPERINTENDENT

FRANK L. COLE

*Deceased.

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of Andover:

Your Board of Public Works submit their fourth annual report, or, if we include the former Board, organized in 1899, the seventeenth report for the year ending December 31, 1916, This is also the twenty-eighth of the Water System, and the twentieth of the Sewer System.

ELECTION

The choice of the voters resulted in the re-election of Barnett Rogers, and the election of Charles B. Baldwin, succeeding Lewis T. Hardy, who, on account of ill health, had declined to be a candidate for re-election. Both of the successful candidates were chosen for a term of three years.

ORGANIZATION

At the first meeting held on March 6th the following were elected:— Chairman, Barnett Rogers; secretary, Charles B. Baldwin; treasurer, Willis B. Hodgkins.

A new contract, expiring March 15, 1917, was entered into with Superintendent Frank L. Cole; salary agreed upon \$2250.

A TRIBUTE

Before proceeding further in reviewing the work of the past year it is well that we pay the respect which is due those whose careers, now ended, were, without question, a very great asset to our town.

John H. Flint, having served as Water Commissioner for ten years, was elected to the Board in 1899, chosen to be its first chairman, and served in that capacity while a member of the Board, retiring in 1902. Mr. Flint died November 30, 1916.

Lewis T. Hardy was a member of the Board from 1903 to 1916, serving as chairman from 1908 to 1914 inclusive. Mr. Hardy died December 25, 1916.

New England conservatism, coupled with rare business ability and keen foresight, meant much to Andover in the days when the ever-increasing demands for the adoption of new ideas and modern conveniences might have proved very costly to a community less efficiently managed.

What better monument could be erected to the memory of these men than the "PUBLIC WORKS" for which they were in a large measure responsible, now so thoroughly appreciated and enjoyed by those who make Andover their home.

WATER DEPARTMENT

Questions concerning the extension of the water mains as discussed at the March Town Meeting are a matter of record. Under Article 13 the town voted to apply to the Legislature for permission to issue bonds to the extent of \$10,000, to allow such extensions as might be considered necessary.

A bill, Chapter No. 262, Acts 1916, passed both branches of the Legislature and was approved by the Governor April 20th, in ample time to incorporate an Article in the warrant for the special town meeting held on June 12th; this being necessary to authorize the sale of bonds; the proceeds to be used towards the extension of water mains.

The town for the first time in its history voted to restrict or limit the Board in the expenditure of this money; the result being only one-half of the amount — \$5000 — was available for the extension of the water system during the past year.

We do not question this procedure, and simply make mention of it here to explain why certain applications have been tabled or referred back with the suggestion that the same be taken care of by an article in the warrant, to be passed on by the voters,

Reference to our Superintendent's report will show that this money has been expended as follows:—

Bellevue Road from Osgood St., a distance of about 2800 ft.	\$2677 45
Ballardvale Road from Woburn St., a distance of about 1021 ft.	891 97
Woburn St., from the Ripley Farm to Spring Grove Cemetery, a distance of about 1400 ft.	1538 47
	<hr/>
	\$5107 89

The above added to the present system makes the mileage 51.19 miles — an increase of 1.19 miles.

There have been added during the year the following:—
Service pipes, 27; meters, 28; hydrants, 8

Revenue and maintenance *per million gallons* for the past five years (See comparative statistics) are as follows:—

	Received	Maintenance	Increase
1912	95.99	39.58	56 41
1913	96.58	36.84	59.74
1914	83.47	43.86	39.61
1915	93.32	42.49	50.83
1916	94.02	46.67	47.35

Certain figures as shown in our Superintendent's report may require an explanation, as follows:—

	Days	Gallons Pumped	Daily Average	Pumping Hours	Water Receipts
1915	365	240,599,178	659175	3509	\$22451 01
1916	366	220,945,880	603677	3402.56	\$23496 87

From the above it would appear that nearly 20,000,000 gallons less were pumped in 1916 than in 1915, although there was an increase of \$1045.86 in the water rates.

It is quite evident that this is due to the fact that prior to the time when the pumps were overhauled the same were not recording correctly, and that in reality during 1915, and possibly

certain of the preceding years, the quantity pumped was considerably less than is shown by the table.

Your Board recommends that the sum of \$11,000 be appropriated for maintenance, and \$1500 for construction.

THE WATER BONDED DEBT

The bonded debt of the Water System is \$172,000.00; there have been paid during the year 1916 \$8000.00 of the 4% bonds, and \$3000.00 of the 3½% bonds. There were also sold in 1916 bonds to the amount of \$10,000.00, authorized by the town in 1916.

Of the above amount of indebtedness \$50,000.00 is redeemable by sinking funds, which amount to \$34,090.83, and an appropriation of \$750 is asked for the Sinking Funds.

SEWER DEPARTMENT

Sewer extensions during 1916 were all put in at the direction of the Board of Health as follows:—

400 ft. from dead-end on So. Main Street

1140 ft. on Ridge St., and lower end of School Street

For particulars as to costs see report of our Superintendent.

The Abbott Village sewer, so-called, although now a part of the sewer system, the same having been finished and accepted by the Board, is working satisfactorily.

With the completion of the system the Board felt compelled to bring to the attention of our citizens the injustice of the vote passed at the special town meeting held March 31, 1915, by which owners of estates in the territory embraced by this system were assessed 75% of the cost, which was estimated by our engineer to be \$3.60 per running foot. Accordingly a special town meeting was held on Monday, June 12th, when that portion of the vote above referred to was rescinded, and a new vote passed, substantially the same as that recommended by the Board of Public Works in their report of 1900, viz., Fifty (50) cents to be assessed on each foot of lot frontage, and five (5) mills per square foot on the area; no estate to be assessed to a depth

exceeding 120 ft., and an allowance of 60 ft. frontage to apply on corner lots, or approximately 1.10 per running foot.

While this put a greater burden on the taxpayers as a whole, the good name which Andover has enjoyed for so many years would, in the judgment of the Board, never permit such discrimination towards this or any section of the town. It is pleasing to note that the voters were practically unanimous in supporting the Board's contention.

PUMP HOUSE

In order to put this matter clearly before our citizens we have asked our engineer to submit a report, which is as follows:—

ANDOVER, MASS., JANUARY 25, 1917

To the Board of Public Works,
Andover, Mass.

Gentlemen:

In the matter of installing centrifugal pumps, motors, etc., at the pump station, on North Main Street near Stimson's bridge, to lift the sewerage from that point to the outlet sewer on High Street, I have to report as follows:—

The apparatus consists of two centrifugal pumps and two 25-horsepower vertical motors, together with necessary connections, automatic starting and stop-device, switchboard, etc.

The pumps were first ready to try out about the middle of June last. The pumps were started up and run for about an hour, when it was discovered that the outlet sewer on High Street was not able to take care of the discharge from the pumps in addition to the sewerage it was already carrying. This was due partly to the fact that the inverted siphon into which the sewer discharges became airbound, and partly to the fact that the 15-inch sewer emptied into a 12-inch iron pipe about 800 or 900 feet from the head of the siphon, thus reducing its capacity nearly one-third.

To remove this difficulty it was necessary to extend the 8-inch force-main down High Street for a distance of about 1200 feet to the head of the siphon below the air-pocket. This arrangement made the total length of the force-main 2460 feet, and the total static head or lift 84 feet.

After the work of putting in this extension of the force-main was completed, the pumps were again tried. Some mechanical defects developed. It was found necessary to change the oiling system. It was also discovered that the main thrust-bearings of the pumps heated to such an extent that it was impractical to operate them. This condition was due to the high speed at which the pumps were driven, and the heavy load carried by the pumps. Ball bearings were installed to remedy this condition with very satisfactory results.

By the conditions of the contract each pump was guaranteed to pump not less than 15,000 gallons of sewerage per hour under the conditions specified. Very careful tests were made and exact results ascertained which were substantially as follows:—

Each pump, when operated under a full head, pumped 30,000 gallons of sewerage per hour. Each pump, when first started consumed about 25 horsepower, but this was reduced, after the pump had been in operation for a few minutes, to 17 horsepower, at which figure it remained until the pump was stopped. This is a little better than the estimate which was about $18\frac{1}{2}$ horsepower. The motors are able to do the work with ease, and run very smoothly. The automatic starting and stopping device works well.

To pump all of the sewerage now being discharged in the storage tank in twenty-four hours, one pump is in operation about three hours out of twenty-four. Thus each pump is capable of doing about eight times the work now required of it.

The cost of power for pumping is about \$17.00 per million gallons.

The total amount expended to date for everything connected with the sewer is \$73652.10, which in detail, is as follows:—

Previously reported (See Annual Report	
Dec. 31, 1915)	\$50085 98
Cenedella & Co.	10823 21
Pump House	3194 12
Lawrence Gas Co.	1965 00
Engineering and Superintending	1117 36
Rights of Way	219 05
Extensions of force-main	2000 00
Filter Beds and Miscellaneous	4247 38
	<hr/>
	\$73652 10

(Signed) JOHN FRANKLIN

Engineer

Your Board recommends that the sum of \$2500 be appropriated for maintenance. This is \$700 in excess of the amount asked for last year, and is needed to meet the cost of power required in operating the motors at the pump house.

THE SEWER BONDED DEBT

The bonded debt of the Sewer System is \$115,000. In 1916 Abbott Village Sewer bonds to the amount of \$15,000 were sold, which completed the issue of \$75,000, as authorized by the town.

Of the above amount of indebtedness \$40,000 is redeemable by sinking funds, which amount to \$19479.50, and an appropriation of \$1000 is asked for the Sinking Fund.

HIGHWAY DEPARTMENT

The purpose of the Board as expressed in previous reports, to continue the rebuilding of streets radiating from the centre, was unanimously approved at the first meeting held on March

6th, although the difficulties due to the advance in the price of material, the growing tendency to increase wages, and the scarcity of labor, were not fully appreciated or anticipated.

Fortunately our Superintendent had the forethought to secure quite a few quotations at the prevailing rates to apply on future deliveries, and in some cases options, subject to the approval of the Board, which together with the announced decision of the Board to secure bids, made it possible to accomplish most of the work planned for, and keep within the appropriation; nevertheless, the construction work, repairs, etc., have cost approximately \$5000 more than would have been necessary in 1915.

This is important, and cannot be lost sight of in determining the amount to be appropriated for 1917, if the beginning which has been made in the way of permanent road building, in so far as this is possible, is to be followed up.

We might also mention that the work done on our streets during the past year has been accomplished with a less number of men and teams than ever before in the history of the town, in so far as we have been able to determine, although this is not all to the credit of the Board, as the scarcity of labor made it impossible to secure or retain for any length of time all that were really needed.

We very much regret that the lack of funds did not permit the completion of Central Street to the Boston & Maine Railroad bridge; this being the most direct roadway between the Centre and Ballardvale. It is perhaps needless to say that this will have the consideration of the Board when the plans for the coming season are being worked out. Attention is also called to the Central Street bridge over the Shawsheen River, which is practically beyond repair. It is the opinion of the Board that this ought to be replaced by a permanent and attractive bridge during the coming year.

Central street as originally laid out was approximately 28 feet in width. Owing to the fact that the street was not as extensively traveled as some others the Board concluded that an 18-foot roadway would answer all purposes. Furthermore, by narrowing up the roadway the expense would be lessened, thus extending the work of reconstruction a greater distance

than would be possible otherwise. This being accomplished it was suggested by the Board through the columns of the *Townsmen* that the abutters on each side of the road grass over that portion between the tarvia and the sidewalk. This would do much to preserve the roadway, and add greatly to the attractiveness of the entire street.

OUTLYING DISTRICTS

The condition of the roads in the West district as reported at the March town meeting by the residents of that section has had the consideration of the Board, and while certain repairs have been made, it is difficult to make much of a showing in this or other outlying districts, which are equally as bad, without the expenditure of a considerable amount of money. To discriminate against one section to the advantage of another is sure to create dissatisfaction from many sources, and we trust, therefore, that our petition for an increased appropriation, to continue the rebuilding of our highways, will have the support of those who favor good country roads, in order that a beginning at least can be made in the outlying districts.

Your Board recommends that the sum of \$32,000 be appropriated for highways, and in addition the railroad franchise and excise tax, also the tax for sprinkling.

LOWELL STREET

It was particularly disappointing to the Board that those having the matter in charge met with so little success in persuading the State and County to contribute \$5000 each; the Town having contributed its part, towards the further rebuilding of this road. For a time it seemed as if the 50% finally authorized would not be forthcoming, as orders to proceed with the work were not received until October 2nd.

The Board has put itself on record in a letter to the Selectmen, urging that every possible effort be made to secure all that was promised last year, viz., \$15,000, one-third to be contributed by the town.

This is the main artery of travel between Andover and Lowell, and the completion of this road will undoubtedly mean much to the business interests of our town, for the automobiles which

The Moderator declared:—

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Treasurer for one year.

Walter S. Donald elected Selectman for three years.

Walter S. Donald elected Assessor for three years.

John W. Bell elected Collector of Taxes for one year.

Frederic G. Moore elected School Committee for three years.

Philip F. Ripley elected School Committee for three years.

Mary Byers Smith elected School Committee for three years.

Samuel H. Boutwell elected Trustee of Punchard Free School for three years.

Frank T. Carlton elected Trustee of Punchard Free School for three years.

Harry M. Eames elected Trustee of Punchard Free School for three years.

Myron E. Gutterson elected Trustee of Punchard Free School for three years.

Harry H. Noyes elected Trustee of Punchard Free School for three years.

Charles B. Baldwin elected Board of Public Works and Sinking Fund Commission for three years.

Barnett Rogers elected Board of Public Works and Sinking Fund Commission for three years.

Charles E. Abbott elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

Nesbit G. Gleason elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Chester N. Lawrence elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Alfred E. Stearns elected Trustee of Memorial Hall Library for seven years.

John H. Playdon elected Tree Warden for one year.

Chose Trustee of Cornell Fund—Allan Simpson, for three years.

Chose Fence Viewers for one year—James Saunders, Raymond L. Buchan, George W. Mears.

Chose Trustees of Spring Grove Cemetery for three years—John L. Smith, Felix G. Haynes, Oliver W. Vennard, George D. Millett, John W. Bell, Daniel H. Poor, Walter I. Morse.

Chose Street Lighting Committee—Barnett Rogers, Walter H. Coleman, Colver J. Stone, Charles B. Baldwin, Henry J. Gardner.

And voted that Lighting Committee be authorized to make contract for Street Lighting for a term not exceeding three years.

Chose Finance Committee for one year (appointed by the Moderator)—George Abbot, Samuel H. Boutwell, John H. Campion, Walter M. Lamont, Henry W. Barnard, Chester W. Holland.

Town Pound—*Voted*, That Town Barn and Barnyard be the Town Pound and that the Superintendent of the Town Farm be the keeper.

Took up Article 3.

Voted, To appropriate the following stated sums of money:

Almshouse Expenses	\$ 4200 00
Repairs on Almshouse	450 00
Relief out of Almshouse	4300 00
Aiding Mothers with Dependent Children	500 00
<hr/>	
<i>Amount carried forward</i>	\$9450 00

COMPARATIVE TABLE OF EXPENDITURE AND REVENUE

FOR 1912-1916

	1912		1913		1914		1915		1916	
	Revenue	Expend.	Revenue	Expend.	Revenue	Expend.	Revenue	Expend.	Revenue	Expend.
†Highways & Bridges	\$ 4000 00	\$ 7136 57	\$ 8265 25	\$14127 85	\$25000 00	\$17113 08	\$25385 00 ^a	\$14711 51	\$28300 00	\$14531 61
dLowell Street									2500 00	
Drains				2235 36				1388 98		2551 36
Sale of Stone	158 60									
Street Sprinkling	1198 88		1151 42	984 44	1466 03	808 64	1453 74	1068 46	1853 23	
Oil for streets				1284 85						
Railroad Taxes	4155 23		4659 56		4609 78		4023 35		3594 76	
Construction	3000 00	4753 96	2954 69	1417 82		13643 55*		19000 55		15548 79
Andover Street	3000 00	2992 26								
Salem Street	2000 00	1999 76								
Elm Square	587 57	608 09								
Lowell Street:										
State & County									4561 70	
Town									2323 61	6885 31
Horses and drivers	2285 00	2295 00	2790 55							
Salary	1200 00	1200 00	850 00							
Miscellaneous			450 00		719 49		5333 83 ^b		1280 31	
Sidewalks	1500 00	1649 65	2000 00	1507 04	1550 00	1648 41	2000 00	2410 59		1311 31
Oil wagon, tools, etc.			1500 00	1409 30		221 37				
Snow	1000 00	781 24	455 25	420 59	2500 00	2684 37†	1500 00	1497 21 ^c		3995 10
Sidewalk revenue	143 65				174 14		466 67		415 06	
Totals	\$24248 93	\$23416 53	\$25077 27	\$23385 25	\$35969 44	\$36119 74	\$40162 59	\$40077 30	44828 67	\$44823 48
Balances		832 40		1692 02	150 30 ^o			85 29		5 19

* This includes drains, catchbasins, and bridges. † Spent by G. W. Wood and gives an overdraft of \$184.37 on Snow. ^oOverdraft caused by Snow.
The expenditure for only roadway work in 1913 was \$20,050.32, in 1914, was \$31,786.64, an increase of about 58%.
† This item should be changed to maintenance to comply with the accounting required by the State Laws and the accounting of the Board of Public Works.
^a Includes transfer from Snow. ^b Includes County and State (\$4000). ^c Includes transfer to Highway.
^d Transfer to Highways (Special Town Meeting, June 12, 1916).

REDEMPTION OF BONDS

DR.

To redeem Water Loans	No. 1 due 1920	\$10000 00
	No. 2 " 1922	10000 00
	No. 3 " 1923	10000 00
	No. 4 " 1925	15000 00
	No. 5 " 1928	5000 00
Balance, January 1, 1916		\$32046 29
Appropriation, March 6, 1916		750 00
Interest on deposits		1294 54
		<hr/> 34090 83

CR.

Water Loan Funds deposited		
Andover Savings Bank	\$ 8333 57	
Andover National Bank	25757 26	
	<hr/>	34090 83

DR.

To redeem Sewer Loans	due 1919	\$10000 00
	"	30000 00
Balance, January 1, 1916		\$15099 28
Appropriation, March 6, 1916		1000 00
Assessments, 1916		2771 63
Interest on Deposits		608 59
		<hr/> 19479 50

CR.

Sewer Loan Funds deposited		
Andover National Bank		19479 50

BARNETT ROGERS
 THOMAS E. RHODES
 WILLIS B. HODGKINS
 CHARLES B. BALDWIN
 ANDREW McTERNEN

Sinking Fund Commissioners

Examined, Feb. 6, 1917

NESBIT G. GLEASON
 JOHN S. ROBERTSON
 WALTER H. COLEMAN
Auditors

SUPERINTENDENT'S REPORT

To the Board of Public Works.

GENTLEMEN:— I hereby submit the twenty-eighth annual report of the Water Department, the twentieth report of the Sewer System, and the fourth annual report of the Highways and Parks, for the year ending December 31st, 1916.

WATER DEPARTMENT

During the year water mains have been extended on Bellevue Street from the main line a distance of 2792 feet of 6-inch C. I. pipe, at a cost of \$2677.45.

The next extension was Ballardvale Road, a distance of 1021 feet of 6-inch C. I. pipe at a cost of \$891.97.

Third extension Abbot Street from Ripley's farm to Spring Grove Cemetery, a distance of 1400 feet of 6-inch C. I. main, cost of \$1538.47.

Fourth extension on Corbett Street a distance of 120 feet and cost \$235.45.

These additions make the present plant December 31, 1916, as follows:—

Total length of main pipe	51.19 miles
Number of hydrants	377
Number of public buildings	15
Number of fountains	8
Number of standpipes	10
Number of faucets at Park	3
Number of private hydrants	34

SERVICE PIPES

Applications received were twenty-eight and of these applications twenty-seven were laid. The number of feet laid by the

town from main to street line was 485.5 feet. From street line to dwelling 1200.6 feet, the latter being paid for by property owners. Relaid 7, making a total on December 31, 1916, of

617 cement lined

838 lead lined

37 other kinds

1492 total or 116,652 feet

METERS

There were set during 1916, 28 new meters, making a total of 1290 now in use in sizes from 5-8-inch to 3-inch inclusive.

PUMPING PLANTS

Haggetts Pond Station

During 1916 this station ran 366 days, 112 days of which the oil engine was used; pumping 70,506,670 gallons in 1326 hours, 6 minutes, consuming 7917 gallons of fuel oil at 7 cents per gallon.

The steam plant was used 254 days, 2077 hours, 30 minutes running, pumping 150,439,214 gallons and using 219 tons coal. Or a grand total of:—

Days	Hours	Gallons pumped	Oil	Coal	Average day
366	3403	220,945,880	7917	219 tons	603,677

I would say early this year the steam plant was thoroughly overhauled and the difference may be seen by comparing 1915 and 1916 reports, which is according to sheets.

One day more pumping:—

107 hours less work pumping

30 million less gallons pumped

56,000 gallons per day less

\$1,045.86 more water rates received

High service station is still giving good service, but the cost of pumping is increasing on this end as we keep a man there now most of the time while running.

I would recommend a duplicate plant be installed here, a centrifugal pump, to be run by electricity, at a cost of about

\$1350.00; then we will have duplicate plants and be protected, where now we are not.

WATER METERS

Water rates have increased in 1916, while less water has been pumped, \$1045.86. The total amount recieved on water rates in 1916 was \$23,496.87. This amount could be increased if every service pipe was metered, and the consumption reduced. All service should be metered.

RECEIPTS

BILLS	Maintenance	Construction	Totals
Various parties, service, pipes, meters		\$1234 34	\$1234 34
stock and labor	\$171 62	177 19	348 81
	<hr/>	<hr/>	<hr/>
	171 62	1411 53	1583 15
Water rates			\$23496 87
			<hr/>
Credits paid Town Treasurer			\$25080 02
Water rates		\$23496 87	
Pipe accounts		1583 15	
		<hr/>	<hr/>
		\$25080 02	\$25080 02

SEWER DEPARTMENT

Work has been done on Main Street, a distance of 400 feet of 6-inch sewer, at a cost of \$1195.97.

Ridge Street and School Street ordered by the Board of Health; 1140 feet of 6-inch sewer at a cost of \$1336.55.

There was also laid in addition to what was done in 1915, 1240 feet more of 8-inch C. I. force-main on High Street at a cost of \$2162.36.

There have been 63 applications for house connections and 59 have already been laid, making a total of 766 connections now

in use. The 59 connections amounted to 3453 feet of Akron and iron pipe at an average cost of $64\frac{1}{4}$ cents per foot. Total feet December 31, 46,374 feet.

There still remain a number of houses in the Abbott Village system to connect.

The new pumping station on Main Street is working satisfactorily, it being required to run about three hours out of every twenty-four, or about twenty hours per week.

FRANK L. COLE

Superintendent

EXPENDITURES

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT			Grand Total
	Maintenance	Construction	Total	Maintenance	Construction	Total	
Payrolls	\$ 5502 39	\$ 2323 37	\$ 7825 76	\$ 89 30	\$ 1867 27	\$ 7550 39	\$15376 51
Boston and Maine	421 22	326 51	747 73			166 43	914 16
New Eng. Tel. & Tel. Co.	176 59		176 59				176 59
T. F. Morrissey & Son	31 10		31 10				31 10
Carfares	64 44	33 35	97 79				97 79
American Express	22 78		22 78				22 78
Standard Oil Co.	303 39		303 39				303 39
T. A. Holt & Co.	48 50		48 50				48 50
Smith & Manning	2 06		2 00				140 79
Lawrence Gas Co.	6 74		67 46				1971 74
Buchan & McNally	42 24		42 24		80	138 73	47 34
Bride Grimes Co.	6 73		6 73			1 72	8 45
A. M. Colby & Co.	23 85		23 85				23 85
Scott Shattuck	84 58		84 58				84 58
James S. May	63 45		63 45				63 45
Dr. E. D. Lane	8 50		8 50				8 50
Arthur O'Hara	43 95		43 95				43 95
Joseph Bordelais	29 70		29 70				29 70
John W. Richardson	92		92				1 42
Hardy & Cole		14 00	14 00			50	52 61
Neptune Meter Co.	63 65	248 20	311 85			38 61	311 85
North Andover Public Works		97 20	97 20				97 20
Builders Iron Foundry Co.	14 29	158 12	172 41			29 15	201 56
Wright's Express	85		85				85
Fuller Bros., horse hire	33 00		33 00				33 00
Rensselaer Valve Co.	334 15	239 39	573 54			65 00	638 54
Waterworks Equipment Co.		536 79	536 79			26 00	562 79

Curry Bros., supplies	298 58	53 16	351 74	12 25			15 25	366 99
Ludlow Valve Co.	32 50	50 55	83 05					83 05
Walter I. Morse	82 25	20 95	103 20	91 26	36 20	4 60	132 06	235 26
Lead Lined Pipe Co.		528 21	528 21					528 21
Boston Pipe and Fitting Co.	2 10	76 89	78 99					78 99
W. H. Coleman & Co.	37 69	11 00	48 69	24 00		22 80	46 80	95 94
Standard C. I. Pipe Co.	570 72	3110 81	3681 53			736 65	736 65	4418 18
Pittsburg Meter Co.	17	150 41	150 58					150 58
H. Mueller, S. Pipe supplies		491 84	491 84					491 84
National Lead Co., lead		285 59	363 47			139 65	139 65	503 12
Wolworth Mfg. Co.	77 88	43 20	48 20					48 20
Harry Eames, hay	5 00	20 88	40 88	275 00			275 00	315 88
Andover Coal Co., coal and coke	20 88	20 00	68 69					68 69
Andover Press	62 50	6 19	96 95			12 00	12 00	108 95
National Meter Co., supplies	96 95		15 05					15 05
Harold L. Bond	15 05		27 75	22 65	20 01		42 66	70 41
Vacuum Oil Co., oil	27 75		237 99					237 99
A. W. Chesterton & Co., supplies	237 99		29 88					29 88
Ira Buxton, repairs	29 88		6 40		4 00		4 00	10 00
Eyelet Tool Co., repairs	6 40		4 05					4 05
Samuel Smith Mch. Co., repairs	4 05		17 90					17 90
Deane Steam Pump Co., repairs	17 90		930 19					930 19
Thomson Meter Co., repairs	930 19		27 08					27 08
Frank E. Davis	27 08		26 54					26 54
J. E. Pitman, lumber	26 54		5 42					5 42
Treat Hardware Co., repairs	5 42		3 00					3 00
Gray & Kendall, repairs	3 00		30 64					30 64
H. B. McArdle, repairs	30 64		7 25					7 25
City of Lawrence	7 25		2 75					2 75
Crosby Steam Gauge Co.	2 75		48 81					48 81
H. A. Cutter	48 81		15 00					15 00
Morrison & O'Connell	15 00		90 20					90 20
Rumney Pump Co.	90 20		41 85					41 85
W. J. Doherty	41 85		51 81					51 81
M. M. Converse, hay	51 81		31 05					31 05
	31 05							

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT					
	Mainte- nance	Construc- tion	Total	Mainte- nance	Construc- tion	House Conneec- tion	Abbot Village Sewer	Total	Grand Total
J. H. Campion, grain	48 30		48 30	57 00				57 00	105 30
Merrimac Boiler Works	42 04		42 04						42 04
Charles A. Hill & Co.	14 72		14 72						14 72
W. S. Greenough & Co.	4 65		4 65						4 65
George Winslow	10 10		10 10						10 10
Birmingham Pen Co.	2 50		2 50						2 50
Skeele Coal Co.	472 16		472 16						472 16
B. F. McDonald & Co.	22 12		22 12						22 12
R. D. Dodd, repairs	59		59						59
George Brown, rubber boots	45 50		45 50						45 50
R. F. Morse, repairs	1 80		1 80						1 80
E. A. Marks, repairs	1 43		1 43						1 43
Poor & Riley	44		44	1 20				1 20	1 64
John A. Riley	4 00		4 00						4 00
Buffalo Meter Co.	62		62						62
Robinson Hardware Co.	37		37						37
Shawmut Chemical Co.	15 00		15 00						15 00
H. S. Macomber & Co., oil	336 68		336 68						336 68
Gulf Refining Co., oil	480 30		480 30						480 30
Frank L. Holt				953 00				953 00	953 00
Arco Rubber Co.				34 88				34 88	34 88
Fire Department				149 10				149 10	149 10
Andover National Bank				5 00				5 00	5 00
Smart & Flagg				20 00				20 00	20 00
Philip Hardy, stock and labor				3 31	98 37	85 74	3188 60	3376 02	3376 02
Myerscough & Buchan				28 10			35 33	63 43	63 43
H. J. Stanchfield, oils				17 00				17 00	17 00
John Davey				2 50				2 50	2 50
Samuel Dimlick				6 15				6 15	6 15

J. F. Cole						7 80				7 80	7 80
D. Donovan & Son						66 62				66 62	66 62
John Franklin (Engineer A. V. S.)						126 50				1243 84	1243 84
Cenedella & Co., contract										10823 00	10823 00
Barnett Rogers, deeds										1 50	1 50
Fred Smith, teaming						50 40				50 40	50 40
John Collins, stone						51 20				421 83	421 83
Puritan Iron Works						96 75				96 75	96 75
Frank E. Dodge, cement						28 75				81 38	81 38
Portland Stoneware Co., pipe										892 98	892 98
M. O'Mahoney Est., pipe										29 75	29 75
James J. Abbott, land damage										213 75	213 75
John Hickey, land damage										5 30	5 30
Cross Coal Co.											
						*400 00					
						\$12170 22	\$8825 73	\$20895 95	\$1794 70	\$2454 67	\$2195 39
										\$23566 12	\$30010 88
											\$51006 83

*Transfer from Miscellaneous

\$30010 88

RECEIPTS

BILLS	Mainte- nance	Service Pipe	Pipe Distri- bution	Totals
Various parties, service pipe and meters		\$1234 34		\$1234 34
Various parties, repairs and labor .	\$171 62	166 20	10 99	348 81
Totals	\$171 62	\$1400 54	\$10 99	\$1583 15
Water rates				23496 87
Credits paid Town Treasurer				\$25080 87
Water Rates		\$23496 87		
Pipe Account		1583 15		
		\$25080 02		\$25080 02

Approved

W. H. COLEMAN J. S. ROBERTSON NESBIT G. GLEASON	}	<i>Auditors</i>
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SUMMARY COST OF CONSTRUCTION WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1916	Total Cost of Construction
Office Fixtures				\$ 561 75
Telemeters				1311 63
Telephones				184 77
Teams				583 65
Pipe Distribution	\$5939 91	\$ 10 99	\$5928 92	254405 02
Service Pipe	2539 87	1400 54	1139 33	25093 99
Water and Land Drainage .				6687 23
Suction Pipe				1309 46
Reservoirs				16985 82
Coal Shed				806 97
Grading Land				1739 12
Workshop				1271 88
Building Pumping Station .				9610 14
Pumping Plants				44401 83
Construction Expenses . .				9406 21
Tools	345 95		345 95	3 90 74
Maintenance	12170 22	171 62	11998 60	
Totals	\$20995 95	\$1583 15	\$19412 80	\$377860 21

SUMMARY COST OF CONSTRUCTION SEWER DEPARTMENT

Sewer Mains in feet	\$44105 10		
Number of Filter-beds		27	
Number of Sludge-beds		3	
Cost to Abutter			\$120862 78
Cost to the Town			127108 40
Totals			\$247971 18
Includes A. V. Sewer			

COMPARATIVE STATISTICS

JANUARY 1, 1916

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped 6 months	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 3106 38	2999 99	1776 21	52 85	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	40 77	25 53	68 42	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	36 42	23 13	73 46	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 2	38 31	28 47	71 27	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	37 32	26 87	71 81	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	3151 33	37 47	20 71	78 79	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2557 61	37 67	20 71	69 61	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	32 33	19 38	68 78	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	31 21	19 24	65 45	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	33 07	21 25	71 78	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	45 44	19 59	51 00	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	40 59	25 63	100 01	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	55 52	21 96	86 89	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	44 25	20 84	81 98	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 03	20 87	75 60	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	45 39	17 29	76 48	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	3054 09	33 34	19 94	75 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	39 52	19 97	79 41	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	36 96	19 55	81 16	187,750,372	1101	884	257	35.22
1909	16407 21	7499 95	3967 72	36 50	18 50	76 93	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	39 21	17 62	91 03	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 58	17 48	95 99	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	36 84	19 58	96 58	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	43 86	18 86	83 47	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	42 49	18 55	93 32	234,973,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	46 67	21 91	94 02	†240,599,178	1465	1262	369	50.08
1916	23496 87	†11998 60	4842 20				†220,945,880	1492	1290	377	51.19

*Regulations and rates changed.

†No allowance for slippage.

‡Chestnut St. 8 in. main, \$1,684.26

HIGHWAYS AND PARKS

To the Board of Public Works.

GENTLEMEN:— I herewith submit the fourth annual report of the Highway Department, for the year ending December 31, 1916.

One of the first things we had to do this year was to handle the snow question, which was more than usual. The amount generally appropriated has been \$1500, but this year we had to spend handling snow, sanding sidewalks and cleaning ice from gutters, \$4000. This was taken from our highway department appropriation of \$28,000, when generally it has been a special one. We were fortunate in having \$2500 transferred from the Lowell Street amount, which helped out, but still the department was out on account of the snow (See detail of expenditure report).

As soon as possible ashes were started from the Pacific Mills; on Holt Street these were started at Salem Street and taken to Orchard Street, a distance of about 6000 feet or one and one-eighth (1 1-8) miles long; this work after being leveled was well rolled and left until summer, when one-half of it was covered with a blanket of Tarvia B, which has made a good road for this section. The cost of this work all complete was \$910.20.

Ashes were also put on Avon Street, filling in holes and rolling; sidewalks were fixed with dust and a few repairs done during 1916; cost on this street \$219.54.

Ashes were also put on River Road, from Fish Brook to the residence of John Maddox, and were put on pretty heavy, as this place was very muddy in the spring and fall; this work cost \$679.70.

Patching and blanketing streets is always the first work done, cleaning catchbasins, gutters, and oiling streets. Then a few small repairs are made; this work done, we started new work on Brook Street the last of June. This work amounted to 1450 feet of curbing, 2088 yards of Tarvia road, new catchbasin,

changing wall, etc., at a cost of \$2671.39 or about 85 cents per square yard for road work, balance on curbing. This street completed, Central Street was started at Essex Street and carried a distance of 2800 feet or about 6000 square yards of Tarvia road; this was blanketed one coat and with catchbasins, curbing corners, labor, material, cost \$5270.71, or about 87 cents per square yard. This was started July 10th, and finished August 10th. Chestnut Street was next started on August 11th, and finished August 19th, and this, with three grates and catchbasins, 100 feet of curbing, labor and material, cost \$1258.40 for 1615 square yards or about 78 cents per square yard. School Street was next started on August 21st, and completed September 22nd; this street was started about 200 feet from Main Street and carried to Central Street. All corners not curbed were curbed and six catchbasins were built with outlet to a main pipe line, which was carried to the brook at the foot of School Street; this main pipe line was started at Morton Street and the cost of drain-pipe, labor, etc., was \$1180.92. This amount added to street cost made the whole job cost \$6093.82 for 5989 square yards of road, or about \$1.02 per square yard, including all work, or about 82 cents per square yard for road work. We then moved to Lowell Street about October 2nd, where we started at Station 2800 under direction of Mr. W. T. Laffey, inspector of the Massachusetts Highway Association, and continued to Station 5300 during the work. On account of the rain and holidays five days were lost, work being completed on December 9th, with the exception of the fence which is now completed. This work cost this year \$6885.31, the county, State and town being divided in thirds. I hope next year this work may be made larger, so this may be completed as soon as possible. There have been many small repairs made, too many to mention. This covers all the new work with the exception of some few hundred feet of gravel road which were done.

OILING STREETS

During the summer there was spent oiling streets, outside of blanketing with Tarvia, which was charged to Maintenance, \$1840.65, and \$1853.23 was collected by Tax Collector and turned over to us with our highway appropriation.

SIDEWALKS

New walks were built on Main Street from School to Phillips, Central, Brook and Summer Streets, and a few small jobs. Resurfacing was done on Central Street, Barnard and Essex Streets. For this work, you should have more money, as \$1500 is not nearly enough to make the necessary walks needed and repair walks already in. More walks should be built as a great many of the streets are mud in the fall and early spring.

BALLARDVALE

Work done by Mr. John Haggerty in Ballardvale District during 1916 consisted of dragging all the streets throughout the center, also scraping off all roads leading to Ballardvale; repairing sidewalks, curbing on Center Street, repairs on Andover Street, Chester Street, cleaning gutters, catchbasins, and repairing with gravel wherever necessary; also snowplough work and sanding. This section is in very good repair, and during the coming year more curbing should be put in and sidewalks repaired, especially on the Hill. During the past year there was spent in this section under the supervision of Mr. Haggerty \$2008.64, covering all work done by him and Fire Department horses.

PARK DEPARTMENT

Nothing but the building of a wall in the park, and the addition of the Boulders to the Park System has been done during the past year. The Boulders were not turned over to me for care until very late, so they were not kept in first-class shape, but during 1917 it will be looked after every week by the Park employee.

Appropriation of Park Department for 1916	\$1500 00
Bills and payrolls	1481 76
	<hr/>
Balance	18 24

HIGHWAY EXPENDITURES, 1916

NAMES	Mainte- nance	Con- struction	Snow	Drains	Side- walks	Lowell Street	Total
Payrolls, labor and teams	\$ 6373 33	\$ 4699 36	\$3694 93	\$ 806 41	\$ 48 19	\$3089 24	\$18711 46
Boston and Maine	129 61	2062 02		39 61	14 22	708 79	2954 25
Morrison & O'Connell	20 10		49 85				69 95
T. F. Morrissey	10 93		20 92				31 85
Thomas Peters, sand			14 40				14 40
Dyar Supply Co.		14 53	195 00				209 53
Samuel Ramsden, gravel			20 00				20 00
Portland Stoneware Co., pipe				432 44			432 44
Puritan Iron Works				126 00		21 00	147 00
New England Metal Culvert Co., pipe				670 98			670 98
Clinton Foundry Co.				34 00			34 00
Smith & Manning				30 00			30 00
Cenedella & Co., pipe				219 12			219 12
Philip Hardy, stock and labor		8 71		192 80		20 00	221 51
Smith & Dove		10 95			15 15		26 55
John Collins, stone	45				17 07		144 90
Winchester Rock Co.	127 83				15 88	494 05	611 48
W. F. Duffee & Co.	101 55				1066 30		1066 30
E. W. Pitman Co.					134 50		134 50
Barrett Mfg. Co., tarvia	2418 44	3866 43				920 44	7205 31
Walter I. Morse, supplies and tools	39 41	45 92				16 10	101 43
W. A. Trow, sand						7 05	7 05
Highway Department, roller and team						296 80	296 80
Mrs. N. F. Flint, gravel	20 25					50 10	70 5
New England Tel. and Tel. Co.	24 87	21 13				11 20	67 10
T. A. Holt Co.	1 45	10 80				1 80	14 07
James May	50 00					35 00	85 00
W. J. Doherty	1 78					265 00	266 78
Cross Coal Co.		121 88				30 75	152 63
Andover Coal Co.						56 76	56 76
Myerscough & Buchan	113 18	128 88				30 75	267 23
Bride Grimes & Co.						1 61	1 61
Essex Trap Rock Co.	190 70	3186 68				833 92	4211 30
John Franklin		160 25					160 25

Buffalo Steam Roller Co.	4 15	87 85	94 00
H. E. Fletcher & Son, curbing		823 00	823 00
D. W. Pingree & Co.		28 95	28 95
Treat Hardware Co.		1 47	1 47
Tyer Rubber Co.	4 20	1 50	5 70
J. H. Campion	132 85	39	133 24
Est. Peter D. Smith, gravel		19 65	19 65
Miss Evelyn Hardy, gravel		4 80	4 80
P. F. McDonald, iron horses		30 00	30 00
Andove Press, printing	40 00	60	40 60
Curry Bros., supplies		4 50	4 50
Anderson & Bowman	62 14	27 05	89 19
Independent Coal Tar Co.		180 00	180 00
Hardy & Cole	68 27		68 27
Standard Oil Co., kerosene	56 07		56 07
Marland Mills	5 00		5 00
George Brown	11 50		11 50
American Express	1 39		1 39
Jane Devlin, gravel	3 40		3 40
Crowley & Co., powders	1 00		1 00
Dr. A. W. Baker	4 00		4 00
B. F. Smith, sand	21 0		2 00
Grey & Kendall	11 5		11 51
A. M. Colby	18 30		18 30
Frank H. Hardy, brushes	27 00		27 00
Pacific Mills, ashes	1454 15		1454 15
Burnham Motor Co.	3 90		3 90
Lawrence Gas Co.	5 40		5 40
Hood Farm, ashes and labor	155 60		155 60
Ira Buxton	3 45		3 45
George Hussey	2 55		2 55
Emerson Mfg. Co.	5 83		5 83
Good Roads Machine Co.	8 50		8 50
County Commissioners	3 00		3 00
Scott Shattuck, hay	35 24		35 24
Harry Eames, hay	106 80		106 80

Names	Main- tenance	Con- struction	Snow	Drains	Side- walks	Lowell Street	Total
Poor & Riley	95						6 95
Nathan Shattuck	5 05						5 05
H. J. Stanchfield	3 40						3 40
J. E. Pitman	17 25						17 25
Shawmut Chemical Co.	15 00						15 00
Clinton Wire Cloth Co., screen	5 10						5 10
Family Shoe Store	4 50						4 50
Est. Jonathan Swift, damages	142 50						142 50
John Baker, Jr., oil	1840 65						1840 65
Frank E. Dodge	6 80						6 80
Headley Good Roads Co.	23 47						23 47
P. J. Daly, grain	44 70						44 70
C. Madeleine Hewes, sand	31 50						31 50
J. W. Richardson (bridges)	348 62						348 62
Buchan & McNally (bridges)	20 52						20 52
John McCarthy & Son, labor	134 52						134 52
	\$14531 61	\$15548 79	\$3995 10	\$2551 36	\$1311 31	\$6885 31	\$44823 48

FINANCIAL STATEMENT

Appropriation, March 6, 1916

Highway Department	\$28300 00
Railway Franchise Tax	1420 46
Railway Excise Tax	2174 30
Sprinkling	1853 23
Massachusetts Highway Commission	2266 66
County	2295 04
Special Lowell Street	2323 60
Credits (various accounts)	1695 37
Lowell Street transfer	2500 00

\$44828 67.

Expenditures

Maintenance	\$14531 61
Construction	15548 79
Lowell Street	6885 31
Snow	3995 10
Drain	2551 36
Sidewalks	1311 31

\$44823 48

Balance 5 19

\$44828 67 \$44828 67

MAIN STREET

Appropriation

Main Street Sidewalk Curbing	\$2000 00
Credits from M. J. Curran	2883 80

\$4883 80

Expenditures

On Sidewalks, W. F. Duffee & Co.	\$2883 80
On Curbing, W. F. Duffee & Co.	1482 75
Balance on appropriation	517 25

\$4883 80 \$4883 80

FRANK L. COLE

Superintendent

REPORT OF
TOWN BUILDING LAWS
COMMITTEE

BUILDING LAWS

TITLE

SECTION 1. This By-Law shall be known and cited as the Building Law.

INSPECTOR OF BUILDINGS

SECTION 2. The Board of Selectmen shall, within thirty days after the adoption of this By-Law and thereafter annually in April, appoint an Inspector of Buildings, who shall hold office for the term of one year or until such time as his successor is appointed.

His compensation shall be regulated by the Selectmen unless determined by a vote of the town at the annual March meeting preceding his appointment.

He shall not be interested in any contract or in the furnishing of materials for any building.

The Board of Selectmen shall have power to discharge the Inspector for failure to perform his duties, and to fill any vacancy in the office.

SECTION 3. The Inspector of Buildings may, so far as is necessary for the performance of his duties, enter any building or premises within the town at any reasonable hour.

SECTION 4. He shall keep a record of all business of the department, which record and all other books and papers relating to the transactions of the department shall be open at all times to the inspection of the Selectmen, and he shall submit to them a yearly report on such business and such other reports as they may require.

BUILDINGS AFFECTED

SECTION 5. No building shall be constructed or altered except in conformity with the provisions of this by-law, but nothing in this by-law shall be construed to apply to:—

(a) Bridges, quays, wharves or buildings or land owned or occupied by the United States or the Commonwealth.

(b) Small wooden buildings not to be used for habitable purposes, and not more than eight feet in length or breadth and seven feet in height.

APPLICATION

SECTION 6. A person intending to erect or make alterations in such building, or his duly authorized agent shall, seven days at least before he proceeds to build or erect the same, or lay the foundation thereof, or to make the said alterations, or to do any act for carrying into execution his intention to do such things, file with the Inspector of Buildings on blank forms furnished by the said official, a notice in writing of his intention, with plans and specifications, or a full written description of the structure to be erected, in such form as may be approved by the Inspector. The Inspector may also require, in his discretion, a survey of a lot on which any proposed

building is to be erected to be filed with the application. Every application shall state the name and address of the owner. Duplicates of all plans and specifications or written descriptions, when approved by the Inspector, shall be kept at the building during the progress of the work, and shall be open to his inspection.

GRANTING OF PERMITS

SECTION 7. The Inspector shall not give a permit for the erection or alteration of any building until he shall have carefully inspected the plans, specifications and premises, and ascertained that the building as proposed will conform to this by-law. He shall grant permits for such erection, or alteration, when the plans and detailed descriptions are in conformity with this by-law and the laws of the Commonwealth. It shall be his duty to approve or reject any plans or descriptions filed with him, within ten days. No work shall be commenced until a permit is issued. He shall, as often as practicable, inspect all buildings in the course of construction or alteration, and shall make a record of all violations of these by-laws, with the name of the owner, occupant, architect and master-mechanic, and of any other matters pertinent thereto. If the Inspector finds that the terms of a permit are being violated, he may, after written notice to the person to whom the permit was issued, order the whole or any part of the work, which is being done under the permit, to be stopped, and such work shall not be resumed until the terms of the permit have been complied with.

Any permit or approval which may be issued by the Inspector of Buildings, but under which no work has been done above the foundation walls within one year from the time of the issuance of the permit or approval, shall expire by limitation. Said Inspector shall have power to revoke or cancel any permit or approval in case of any failure or neglect to comply with any provision of this by-law, or in case any false statement or representation is made in any specifications, plans or statements submitted or filed for such permit or approval. No building hereafter constructed or altered shall be occupied unless it conforms in its construction to the regulations of this by-law nor until the Inspector of Buildings has issued his certificate to that effect. The Inspector of Buildings shall not issue such certificate until the Board of Health has certified to him that the building conforms to all the requirements of its plumbing regulations. The Inspector of Buildings shall issue or refuse in writing to issue his certificate within fifteen days after written application therefor.

UNSAFE BUILDINGS

SECTION 8. The Inspector of Buildings shall examine every building or other structure which he has reason to believe unsafe or dangerous, and if he finds it unsafe or dangerous he shall, in writing, notify the owner, agent or any person having an interest therein, to remove it or make it safe and secure, and such person shall thereupon immediately remove it or make it safe, in such manner as the Inspector of Buildings shall approve.

APPEAL

SECTION 9. In case the owner of any building or other structure, or an applicant for a permit to erect or alter a building or other structure, is aggrieved by any order or decision of the Inspector of Buildings, he may file with the Inspector an objection in writing, and thereupon the matter shall be referred to the Selectmen who, within one week from said reference, shall hear the parties, and after taking such expert opinion as may seem to the Selectmen to be necessary, give their decision. In case the decision of the Inspector of Buildings be affirmed, the expense of such expert opinion taken by the Selectmen shall be paid to the town by the owner or applicant on demand, otherwise such expense shall be borne by the town.

DEFINITIONS

SECTION 10. *Adjoining Owners.* The owner or one of the owners of the premises adjoining those under construction.

Alteration. Any changes in or addition to a building.

Areas. Open spaces adjacent to buildings or the building line for lighting or ventilation.

Attic. (See Half Story).

Basement. A lower story partly *underground* but which, in the average, is at least one half above the average level of the adjoining ground. But in a building which is not used for human habitation such lower story may be deemed a first story, if the upper part of its floor is not below the level of an adjoining street, way, place, or suitable sized open area of vacant land and has proper means of ventilation and exit. All to the satisfaction of the Building Inspector.

Bearing Wall. Any wall which carries any load other than its own weight.

Builder. A person employed to build or to execute work on a building or where no person is so employed, the owner of the building.

Building, Wooden. A building of which the external wall is constructed wholly or partly of wood. Wood frames covered with metal shall be deemed to be wood construction.

Chimney. Any permanent or fixed flues or passages built into any building for conveying away products of combustion from furnaces, stoves, boilers, ranges, or fireplaces.

Corner Lot. A lot situated at the intersection of two or more streets or at the junction of two streets or where a street changes its direction provided the interior angle does not exceed 120 degrees.

Any portion of a corner lot distant more than seventy feet from either street line shall be treated as an interior lot.

Courts. An open, unoccupied space other than a yard on the same lot with a dwelling. If it does not extend to the street or front or rear yard it is an inner court. If it does so extend it is an outer court.

Thickness of a Wall. The minimum thickness of such wall.

Curb Level. The level of an established curb in the front of the building at the center of the front. Where no curb has been established, the town shall establish such curb level or its equivalent for the purposes of this by-law.

Curtain Wall. A wall built between piers or iron, or steel columns and which is not a bearing wall.

Dwelling-house. Any house or building or portion thereof which is occupied in whole or in part as the home, residence or sleeping-place of one or more human beings, either permanently or transiently.

Private Dwelling-house. A house in which not more than two families dwell independently and in which no part is used for business purposes.

External Wall. Every outer wall or vertical enclosure of a building other than a party wall.

Flat Roof. A roof that pitches not more than four inches to the foot.

Footing. That part of any masonry foundations resting directly on the ground.

Foundation. That portion of a wall below the level of the street curb, or where the wall is not on a street below the level of the highest ground next to the wall, and shall include all piers below the curb level or below the floor of the first story.

Front and Rear of Lots. That boundary line which borders on the street is the front of the lot. In case of a corner lot the owner may elect by statement on his plans either street boundary line as the front.

The rear of the lot is the side opposite the front. In case of a triangular or gore lot the rear shall be the side not bordering on a street.

The depth of a lot is the dimension measured from the front to the extreme rear line of the lot. In case of irregular shaped lots the mean depth shall be taken.

Height of a Building. The vertical distance of the highest point of the roof above the mean grade of the curbs of all the streets or the mean grade of the natural ground adjoining the building if the said grade of the ground is not below the grade of the curb.

Height of a Wall. The vertical distance from the mean grade of the ground adjoining the wall to the highest point of the wall.

Interior Lot. Any other lot than a corner lot.

Lodging-house. A house or building or part thereof in which six or more persons are harbored, received, or lodged for hire, or any building or part thereof which is used as a sleeping-place or lodging for six or more persons not members of the family residing therein.

Length and Width of Building. The greatest linear dimension of any building is its length and the next greatest linear dimension its width.

Mansard Roof. A roof formed with an upper and under set of rafters, the upper more inclined to the horizon than the lower.

Occupied Space. Outside stairways, fire escapes, porches, platforms, and other projections shall be considered as part of the building and not as part of the yards or courts or unoccupied spaces.

Owner. Includes any part owner, joint owner, tenant in common or joint tenant of the whole or part of any building or land.

Partition Wall. Any interior wall of a building.

Party Wall. A wall that separates two or more buildings and is used or adapted for use of more than one building.

Repairs. The reconstruction or renewal of any existing part of a building or of its fixtures or appurtenances by which the strength or fire risk is not affected or modified and not made for the purpose of converting the building in whole or in part to a new use.

Shaft. Includes exterior and interior shafts whether for air, light, elevator, dumbwaiter, or any other purpose.

Skylight. Any structure on or opening on a roof for the admission of light.

Span or Beam. The distance from center to center of its supports.

Stair Hall. Includes the stair, stair landings and those portions of the public halls through which it is necessary to pass in going between the entrance floor and the roof.

Story of a Building. That part of a building between the top of any floor beams and the top or roof beams next above.

Story, First. The story, the floor of which is first above the basement or cellar.

Story, Second. The story next above the first story.

Story, Half. Is a story in a sloping roof.

Story, Topmost. The uppermost story, whether constructed wholly or partly in the roof or not.

Tenement House. A house or building or part thereof which is rented, leased, let, or hired out to be occupied or is occupied or is intended, arranged, or designed to be occupied as the home or residence of two or more families, which families may consist of one or more persons living independently of each other and having a common right in the halls, stairways, yard, courts, cellar, sinks, water-closets, or privies or any of them. Where the occupants of dwelling-houses contiguous, and vertically, divided, each occupied and intended, arranged or designed to be occupied as the home or residence of one family or more have a common right in or use in common the halls stairways, yards, cellars, sinks, water-closets, or privies or any of them, such dwellings are tenement houses.

Street. Any public way not less than sixteen feet in width.

Yard. An open unoccupied space on the same lot with a building between the extreme rear line of the house and the extreme rear line of the lot.

A front yard is an open unoccupied space between the front line of the building and the front line of the lot.

A side yard is an open unoccupied space between the side line of the building and the side line of the lot and shall be deemed an outer court on the lot line.

Words used in the present tense shall include the future; in the masculine, the feminine and neuter; in the singular, the plural, and in the plural, the singular; "shall" is always mandatory and not directory; occupied or used shall be construed as if followed by the words or intended, arranged, designed, built, altered, converted to, rented, leased, let, hired, out, "to be used or occupied". When any word designating any building premises or lot is used, it shall be construed as if followed by the words "or any part thereof".

The provision of these by-laws shall be held to be the minimum requirements for the protection of the health, welfare, and safety of the community.

PERCENTAGE OF LOT OCCUPIED

SECTION 11. No dwelling-house hereafter erected shall occupy either alone or with other buildings more than sixty-five per cent of a corner lot nor more than fifty per cent of any other lot; the measurements to be taken at the ground level. No measurements of lot area shall include any part of any street or alley.

HEIGHT OF BUILDING

SECTION 12. No dwelling-house hereafter erected shall exceed in height the width of the widest street upon which it stands, unless such house be set back from the street a distance at least equal to the excess of such height over the width of such street but in no event shall a wooden building hereafter erected to be used for a tenement house exceed forty-five feet in height nor have more than two stories below the attic floor, and every building hereafter enlarged or altered for use as dwelling-house shall be made to conform to the requirements of this section. In no wooden tenement house hereafter erected shall any story or any part thereof above the second story be occupied or arranged for housekeeping independently of the lower stories nor shall any provision be made for cooking nor shall any cooking be done above the second story.

LOTS

SECTION 13. No portion of a building hereafter erected or altered for use as a dwelling-house shall be placed nearer the rear lot line than a distance equal to one-half its height; but in no event shall such distance be less than ten feet.

PROXIMITY TO OTHER BUILDINGS

SECTION 14. No portion of any wooden dwelling-house hereafter erected shall be placed at less distance than ten feet from the side line of the lot upon which it is to be located or within ten feet of another wooden building except where a brick external wall of a thickness and built in the manner prescribed for external walls of brick buildings is substituted for a wooden wall.

BASEMENT AND CELLAR ROOMS

SECTION 15. In tenement houses hereafter erected no room in the basement or cellar shall be constructed, altered, converted or occupied for living purposes.

CELLARS, DAMP-PROOFING AND LIGHTING OF

SECTION 16. Every tenement house hereafter erected shall have the walls below the ground level, and the cellar floor damp-proof. All cellars and basements in such tenement houses shall be properly lighted and ventilated and kept free from dampness in all their parts to the satisfaction of the Board of Health.

SPACES UNDER FLOORS

SECTION 17. In any dwelling-house hereafter erected, under any part of which there is no cellar, the first or ground floor shall be at least two feet above the ground beneath and that adjacent thereto, and the space beneath such floor shall be kept free and clear, and shall be inclosed to prevent the accumulation of rubbish, but provided with ample ventilation and adequate drainage.

FOUNDATIONS

SECTION 18. Excavations for stone foundations shall be made at least six inches beyond the outside of foundation walls and shall not be back-filled until inspected. The foundations of all buildings for dwellings, except as provided in Section 19, shall be walls of masonry at least sixteen inches thick and piers of masonry or iron, laid in cement mortar; but cellar walls may be laid dry to within six inches of the finished grade, provided they are properly pointed inside with cement and lime mortar. All wooden buildings not more than two stories in height, may be built wholly or in part upon piers or posts. The foundations of all buildings must rest on solid ground or leveled surfaces of solid rock, or on piles, concrete, or other solid substance. Such foundation, other than solid rock, must not be exposed less than three feet below the adjacent surface of the ground exposed to frost. Piazzas and porches shall have a suitable foundation of stone, brick, iron or concrete, built on solid bottom, not less than three feet below, and extending not less than three inches above the finished grade. All foundations under masonry walls and piers shall be at least four inches wider than the finished wall or pier.

CONCRETE SPECIFICATIONS

SECTION 19. Cellar and house walls of concrete shall be poured with forms upon both sides and shall be well rammed to place. For houses two stories or more in height the thickness of the cellar walls shall be at least twelve inches, and for one-story houses the thickness shall be at least eight inches. The proportions of the mixture shall be in volume as follows:—

One part of Atlas Portland Cement or a brand of equal grade; two parts of clean, sharp sand; five parts of broken stone or well-screened gravel.

No concrete or other mason work shall be erected when the temperature is below freezing.

FIRE WALLS

SECTION 20. No building, to be used as a dwelling, shall hereafter be erected, and no existing building shall be altered or added to for such purpose, thereby giving it a frontage of more than fifty feet, without one or more partition walls of brick or some fire-resisting material, approved by the Inspector, extending from the bottom of the cellar or from a foundation wall to the under side of the roof-boarding, which shall be laid and be imbedded in mortar upon said wall. Such walls shall not be more than fifty feet apart throughout the length of the building. No existing building having a frontage of more than fifty feet shall be converted for use as a dwelling-house, without at least one partition wall, constructed as described in this section. Provided, however, that any single dwelling-house used for one family may be extended more than fifty feet in one direction without such partition wall.

APARTMENT HOUSE FIRE WALLS

SECTION 21. All houses arranged for the occupancy side by side of more than two families shall have a fireproof partition wall between each apartment, consisting either of a brick wall, not less than eight inches thick, extending from the cellar bottom to the under side of the roof-boarding, or of a brick or concrete wall not less than eight inches thick, extending from the cellar bottom to the top side of the first floor timbers, and above that to the under side of the roof-boarding, of two by four-inch studding, with the spaces between filled solid with bricks and mortar, or other fireproof material, not less than four inches thick, to make a smoke-tight barrier between the apartments.

WOODEN FRAME BUILDINGS

SECTION 22. All wooden frame buildings shall be built with sills, posts, girts and plates, girts to be tenoned into the posts. All buildings shall be braced in each story and in cross-partitions if deemed necessary by the Inspector. No wall or ceiling of any building shall be lathed or otherwise covered until the Inspector has been notified in writing that the building is ready for such work, and until he has given written consent therefor. The Inspector shall act on such notice within forty-eight hours of its receipt.

In all wooden buildings not exceeding three stories in height the posts of which exceed twenty-two feet in length, the sills shall be not less than six by six inches, and the posts and girts not less than four by six inches; in all such buildings the posts of which are twenty-two feet or less in length, the sills shall be not less than four by six inches, laid flatwise, and the posts and girts not less than four by six inches; in all wooden buildings the studding of the outside walls

shall not be less than two by four inches, set not more than sixteen inches on centres; in all wooden buildings the studding in all partitions carrying floor timbers shall not be less than two by four inches, set not more than sixteen inches on centres, and resting on girders not less than six by eight inches. All window studding to be not less than three by four inches. Ledger boards may be used in place of girts in one and one-half story houses or in dwellings where the attic floor is below the plates, if the spaces back of the ledger boards between studding shall be filled with joists of same size as wall-studs, cut in tight so as to prevent a draft in case of fire. All self-supporting walls or partitions above the first floor in any building shall be trussed in a manner approved by the Inspector.

FLOOR TIMBERS

SECTION 23. Floor timbers in dwelling-houses, when of good, sound spruce set sixteen inches on centres, shall be of the following sizes:— for a span not exceeding ten feet the timbers shall be not less than two by seven inches; for a span not exceeding thirteen feet the timbers shall be not less than two by eight inches; for a span not exceeding fifteen feet the timbers shall be not less than two by nine inches; for a span not exceeding seventeen feet the timbers shall be not less than two by ten inches; for a span not exceeding eighteen feet the timbers shall be not less than two by twelve inches; for a span not exceeding twenty feet the timbers shall be not less than two by fourteen inches; for a span not exceeding twenty-two feet the timbers shall be not less than three by twelve inches; for a span not exceeding twenty-four feet the timbers shall be not less than three by fourteen inches in size. In case other sizes, materials, and spacings are used for floor supports, the arrangements must be such as to secure a strength equivalent to that given above in the specifications for spruce. All floor timbers of eight feet or more span shall be bridged at intervals not greater than six feet apart with bridging at least one by two inches in size.

Girders when of good, sound spruce shall be not less than six by eight inches under main partitions. Summers or floor timbers doubled, or their equivalent shall be used under all cross partitions in the first floor of all dwellings. Headers and trimmers of all openings more than four feet square in the floors of dwellings shall be floor joints doubled or their equivalent. Beams under carrying partitions in the first floors shall be supported on piers or cement filled iron posts, the latter not less than three and one-half inches in diameter, or their equivalent, the same to be spaced not more than eight feet apart on centres. In case structural steel or hard pine beams are used the spacing of the posts shall be such as to give a supporting strength equivalent to the above specifications for spruce. Floor timbers for any attic whether finished or unfinished, to which there is access by stairs shall not be less than two by seven inches.

All cutting of floor timbers for the passage of pipes shall be on their upper edges, and no cut shall exceed two inches in depth, or be made more than three feet from the bearing point of the timber unless the

consent of the Inspector has first been obtained. No cutting in the under side of a floor timber will be allowed for any reason.

ROOF TIMBERS

SECTION 24. In buildings which are eighteen feet or more in width, rafters for pitched roofs shall measure not less than two by six inches, and be spaced not more than twenty inches on centres; in buildings which are less than eighteen feet in width, the size of rafters may be determined by the Inspector. Valley rafters twelve feet or more in length shall not be less than two by eight inches. All timbers herein mentioned are to be solid sticks excepting the plates, which may be in two pieces, each two by four inches, thoroughly spiked together. Flat roofs shall be timbered the same as floors.

BRICK BUILDINGS, BOND

SECTION 25. All brick walls shall be built with proper bond and all intersections of walls shall be thoroughly bonded together with brick or tied together with wrought iron straps as often as every eight feet in height. Floor beams shall be anchored to brick walls on which they rest and to each other so as to form continuous ties across the building at least every ten feet.

BRICK DWELLING-HOUSES, THICKNESS OF WALLS

SECTION 26. External walls of brick dwelling-houses, if not more than twelve feet in height, above the foundation walls, shall be not less than eight inches thick for their entire height; if two stories and not more than twenty-five feet in height, they shall not be less than twelve inches thick to the top of the second floor, and not less than eight inches thick for the remaining height; and if three stories and more than twenty-five feet in height, they shall be not less than twelve inches thick to the top of the third floor, and not less than eight inches thick for the remaining height.

EXTERNAL WALLS, BRICK BUILDINGS OTHER THAN DWELLING-HOUSES

SECTION 27. The external walls of all brick buildings, other than dwelling-houses, if not more than forty feet in height, above the foundation walls, shall be of the following thickness. Walls for the two topmost stories shall be at least twelve inches in thickness; for the next two stories, reckoning downward, at least sixteen inches in thickness, and for all subsequent stories an increase of four inches in thickness shall be secured for each twenty-five feet in height. Provided, however, that the method known as "Mill Construction" may be used, whereby the external walls are constructed of a series of piers, of such width as the Inspector may approve, and of the thickness above prescribed for the external wall. Said piers to be connected by curtain walls. Said curtain walls shall be well bonded to the piers, and not less than eight inches thick, in which all windows

or other openings must be made. All floors must be supported on the piers and no portion of a floor shall for any reason be supported on curtain walls.

The external walls of brick buildings, not exceeding twenty-five feet in height and covering an area not exceeding two thousand square feet, to be used for stables or light mechanical purposes, may be twelve inches thick.

PARTY WALLS OF BRICK BUILDINGS OTHER THAN DWELLING-HOUSES

SECTION 28. Party walls and all partition walls of brick, in all buildings other than dwelling-houses with external walls not exceeding forty feet in height, shall be not less than sixteen inches to the top of the second floor, and not less than twelve inches thick for the remaining height, and, in buildings having external walls exceeding forty feet in height, said walls shall be not less than twenty inches thick to the top of the second floor, nor less than sixteen inches thick to the top of the third floor, and not less than twelve inches thick for the remaining height.

DOORWAYS

SECTION 29. No opening or doorway shall be cut through or formed in a party partition wall of any building without a permit from the Inspector of Buildings, and every such doorway shall have its top, bottom and sides of stone, brick or iron, and shall be closed by two doors of wood, covered with metal, with an air-space between them of at least four inches, and said doors shall be hung to slide or swing in wooden frames entirely covered with metal, or to iron hinges or track in brick or stone rabbets.

PIERS AND COLUMNS

SECTION 30. All brick piers shall be built of the best quality of good, well-burnt, hard brick, laid in cement and sand mortar and well wet when laid in warm weather. Brick piers under lintels, girders or columns of brick buildings shall have a properly proportioned cap of castiron or steel the full size of the pier. Brick piers and buttresses shall be bonded with through courses, leveled and bedded each course, and where their foundations rest upon piles a sufficient number shall be driven to insure a proper support.

CHIMNEYS

SECTION 31. All chimneys hereafter erected shall be built from the ground of brick, stone or other fireproof, non-heat-conducting materials, and shall be built plumb, or nearly so, so as to be self-sustaining; provided, however, that brick flues may be securely built into the brickwork of the walls of the building to which they are hung, when the walls are not less than twelve inches thick; and provided also, that upon special permission, first obtained from the Inspector, other forms of support may be used with such special safeguard as he may require, and provided also that, the matter of

chimneys in small wooden buildings, other than dwelling-houses, not more than one story and one-half in height, shall be left to the decision of the Inspector of Buildings, but must be constructed in accordance with his instructions and to his satisfaction.

CHIMNEY LININGS

SECTION 32. All brick chimneys shall be built of hard burned brick, plastered outside below the roofing after having been examined and approved by the Inspector of Buildings, except that exposed portions of said chimneys may be left unplastered upon the outside. Said chimneys shall be topped out with brick or stone, laid in cement, and the topping out shall not have more than two inches projection unless the bricks are covered by a cap of stone or other non-combustible material, in one piece, properly secured and approved by the Inspector; and in no case shall a nail be driven into the masonry of any flue. All chimneys with exterior walls less than eight inches thick shall be lined with vitrified clay flue-lining.

CHIMNEYS. SMOKE-PIPES

SECTION 33. No smoke-pipe in any building with wooden or combustible floors or ceilings shall hereafter enter any flue except at a distance not less than twelve inches from said floor or ceiling; and in all cases where smoke-pipes pass through stud or wooden partitions of any kind, whether the same be plastered or not, they shall be guarded by a soapstone ring having a thickness radial to said pipe of not less than two inches and extending through said partition, and in cases where smoke-pipes pass through woodwork of any kind in such near proximity to the brickwork of the flue that the space between said woodwork and flue is inaccessible, said pipe shall be guarded by a soapstone ring or thimble, or its equivalent, having a thickness of at least two inches, and extending from the outer face of said woodwork to a point at least two inches within the brickwork of the flue, in which it shall be firmly set. The Inspector of Buildings may, however, allow the use of an approved substitute for such soapstone ring.

CHIMNEYS, HEARTHES

SECTION 34. All hearths shall be supported upon the trimmer arches of brick or stone, or upon bars of iron supporting a bed of brickwork and shall be at least twelve inches longer than the width of the fireplace openings and at least eighteen inches wide in front of the chimney breast. Wooden centering supporting a trimmer arch shall be removed before plastering.

FIREPLACES

SECTION 35. Brickwork of all grates, fireplaces and ranges shall not be less than eight inches thick. No woodwork shall be secured to brickwork of any flue. Open fireplaces shall have fireproof foundations. Where there is woodwork directly back of a fireplace, the

backs shall have either a two-inch air-space with four inches of brick or concrete blocks, or shall be at least eight inches thick with a fireplace lining of castiron or four inches of brick. Between fireplaces or where back of fireplace is exposed there shall be not less than eight inches of masonry.

FIREPROOFING DETAILS

SECTION 36. *a.* All elevator wells, clothes chutes, and light shafts, unless built of brick, shall be filled in flush between the wooden studs with fireproof materials, or lined with metal or plastered on metal lathing, as may be directed by the Inspector, and all woodwork inside of such wells or shafts shall be lined with tin plate lock-jointed.

b. Where floor beams rest on partition caps or on girders, wall girts or wooden sills shall be filled in between such beams, from the caps, girders, girts or sills to four inches above lining floor above, solid, with brick and mortar or other fireproof material.

c. In brick buildings the space between the furring on the outside walls, or brick partitions, shall be filled flush with mortar for a space of five inches in width above and below the floor beams of each story.

d. Where basement or other flights of stairs are enclosed by partitions of brick or wood, the space between the studs or wall furring shall be so fire-stopped with brick or mortar as to effectually prevent any fire from passing up between such studs or furring back of the stairs stringers.

e. All flights of stairs between two floors shall have a smoke-stop built between the stringers and properly constructed.

f. A space of at least one inch shall be left between all woodwork and the chimneys, also around all hot-air and steam pipes; these spaces around chimneys and pipes where they pass through the floors shall be stopped with metal or other fireproof material, smoke tight. Steam pipes shall have metal sleeves and collars one-half inch larger in diameter than the pipe.

g. All channels and pockets for gas, water and soil pipes shall be made smoke-tight at each floor.

h. The space around all metal or brick ventilating ducts shall be fire-stopped at each floor with a metal or fireproof material as approved by the Inspector.

i. Where a building is occupied above the first floor for tenements or a lodging-house, and the lower story is occupied for stores and other purposes not connected with the upper floors, the stairways leading to such upper floors shall be enclosed with brick walls or wooden partitions; said partitions shall be covered with metallic lath and plaster or other fireproof material.

ELECTRIC WIRING

SECTION 37. All electric wiring hereafter installed, or renewing hereafter done, and all repairs hereafter made to the extent of such repairs shall conform to the specifications now accepted by the National Board of Fire Underwriters and shall be subject to the approval of the Inspector of Buildings.

HEATING

SECTION 38. *a.* An apparatus for heating shall be so installed as not to be dangerous. Any woodwork, wooden lath partitions or ceilings within four feet of the sides or back of any furnace, boiler or other heating apparatus, or six feet from the front shall be covered with metal to a height of at least four feet above the floor.

b. No furnace or range set in masonry shall hereafter be placed or its location changed in any building without a permit from the Inspector of Buildings, who shall prescribe such regulations for the setting thereof as in his judgment the public safety may require.

c. The top of every heating furnace or steam boiler or smoke pipe shall be kept at least one foot below the lowest part of the ceiling or floor next above it, and such protective covering shall be placed on such ceiling as the Inspector may require. No furnace or boiler shall be set upon a wooden floor, and no boiler shall be placed or maintained under any public way.

d. All rooms containing a furnace or boiler or other heating apparatus having a grate area of more than ten square feet shall be separated from all parts of the building by masonry partitions at least eight inches thick and ceilings of metal lath and plaster. The openings in partitions shall be fitted with approved self-closing fire doors.

e. No horizontal hot-air pipe leading from a furnace shall be less than six inches from any woodwork unless the woodwork be covered with loose-fitting tin or the pipe be covered with approved protective material.

f. No pipes for conveying hot air shall be placed nearer than two inches to any woodwork unless protected to the satisfaction of the Inspector by suitable guards or casings of incombustible materials.

g. No wooden flue or duct of any description shall be used for heating or ventilating purposes except that wooden air-ducts may be used to convey cold air to heating furnaces, all woodwork of the same to be at least three feet from the outside of the firebox of said furnace.

h. Hot-air register boxes in the floors or partitions of all buildings shall be set in soapstone or equally fireproof borders not less than two inches in width, shall be made of tin plate, and shall have double pipes and boxes properly fitted to the stone borders.

i. There shall be one register without valves or louvres in every furnace installation.

j. No steam or hot-air pipe shall be placed within one inch of any woodwork, and no such pipe shall pass through any wood stud or sheathed partition unless protected by a suitable thimble approved by the Inspector of Building.

LIGHT AND VENTILATION

SECTION 39. In every tenement house, dwelling or place where people are employed, hereafter erected, every room shall have at least one window opening directly upon the street or upon the yard, or court, an outer or inner, except that kitchenettes, pantries, water-closet compartments and bath-rooms may have such windows opening upon a light-well. All windows shall be so located as to properly

light all parts of such rooms. No light-well shall be less than three feet in its least dimension nor less in area than twelve square feet for one story, and must be increased six square feet in area for each additional story, and the walls of such light-well shall be constructed of incombustible material.

SHAFTS AND COURTS

SECTION 40. In every tenement house hereafter erected there shall be, at the bottom of every shaft and court, a door giving sufficient access to such shaft or court to enable it to be properly cleaned.

WINDOWS IN ROOM

SECTION 41. In every tenement house hereafter erected the total window area in each room, including water-closet compartments and bath-rooms, shall be at least one-eighth of the floor area of the room. The above window measurements shall be taken between the stop-beads.

SIZE OF ROOMS

SECTION 42. In every tenement house hereafter erected there shall be in each apartment at least one room containing not less than one hundred and forty square feet of floor area. Each room shall be in every part not less than eight feet high from the finished floor to the finished ceiling, except that an attic room need be seven feet six inches high in but one-half of its floor area.

PRIVACY

SECTION 43. In every apartment in any tenement house hereafter erected, access to every living-room and bedroom and to at least one water-closet shall be had without passing through any bedroom.

CHIMNEYS AND FIREPLACES

SECTION 44. In every tenement house hereafter erected, there shall be at least one adequate chimney running through every floor with an open fireplace or grate or place for a stove, properly connected with said chimney, for every apartment.

PUBLIC HALLS

SECTION 45. In every tenement house hereafter erected, every public hall shall have at least one window, of the dimensions specified for rooms in this by-law, at each story, opening directly upon the street or upon a yard. Any part of a public hall which is shut off from any other part of said hall by a door shall be deemed a separate hall within the meaning of this section.

STAIRWAYS

SECTION 46. Every tenement house hereafter erected shall have two separate stairways leading from each apartment to the ground, access to these stairways being at two points as far apart as possible.

REPAPERING

SECTION 47. No wallpaper or kalsomine or other wash shall be placed upon any wall or ceiling or other portion of any tenement house unless all old paper, kalsomine or wash shall first be removed therefrom and said wall or other portion of building thoroughly cleaned.

ACCESS TO FLAT ROOFS

SECTION 48. Every building over two stories high and having a flat roof shall have permanent access to the roof, from the inside of the building, through an opening at least two feet by three feet, with fixed step-ladder or stair. Such opening shall have direct access from a public corridor or a stair hall and shall not be equipped with a lock.

ROOF HOUSES

SECTION 49. No roof houses shall be constructed on any building above the highest level permitted for the roof, except over stairs, tanks, elevators and elevator machinery, and such houses shall be no larger than is necessary to serve properly their purpose, and as approved.

PARAPETS

SECTION 50. No part of any parapet on a roof shall be more than six feet above the highest level permitted for the roof.

SKYLIGHT

SECTION 51. All skylights on roofs of buildings shall be metal and glass, and shall not be at any point higher than six feet above the highest level permitted for the roof except with special approval. Skylights not glazed with wire glass shall be protected with wire screens when required by the Inspector of Buildings.

BAYS, BALCONIES, PORCHES, CORNICES AND OTHER PROJECTIONS

SECTION 52. No parts of a building other than those mentioned in this division, shall project over any street, square or other public way.

Cornices may project a distance equal to one-twentieth of the width of the public way; provided, however, that in no case shall they in any part project more than three feet.

Window caps and sills, string courses and other projections may project one quarter of the projection allowed for a cornice of the wall on which they occur.

Rain-water leaders and conductors shall not project more than seven inches.

Signs and marquises shall be allowed, if approved by the Board of Selectmen.

ROOF WATER

SECTION 53. No roof shall be so arranged as to discharge water, ice or snow upon a public way or adjoining property.

EXCEPTIONS

SECTION 54. Temporary buildings may be erected for the use of builders within the limits of the lots whereon buildings are in course of erection, or on adjoining vacant lots, and other temporary structures including platforms, stands, election booths, and tents may be erected upon permits issued by the Inspector and may be maintained for the period of time stated in the permit. No observation stand shall be constructed or maintained except in accordance with plans approved by the Inspector.

BILLBOARDS

SECTION 55. No billboards or signboards shall be erected or placed upon any building or structure or the roof thereof or upon the ground, unless the same be safely supported and securely fastened thereto in a manner satisfactory to the Building Inspector.

ICEHOUSES

SECTION 56. Buildings to be used exclusively for the storage of ice may be erected in isolated localities and constructed of such materials and under such conditions as the Inspector may prescribe.

FIRE LIMITS

SECTION 57. Fire limits are established as follows:

Beginning at a point on the westerly side of Main Street on the southerly side of Stimson's Bridge, and running thence westerly along the southerly side of the Shawsheen River to a point 150 feet westerly from the westerly side of Main Street, thence southerly on a line parallel with and distant 150 feet westerly from the westerly side of Main Street to a point 150 feet from Stevens Street, thence westerly and southwesterly on a line parallel with and distant 150 feet northerly from the northerly line of Stevens Street, to land of Abbie Smith; thence southerly by the easterly boundary line of said Smith's land to Stevens Street, thence westerly by Stevens Street, to its intersection with Shawsheen Road; thence southeasterly by Shawsheen Road to a point 400 feet northwesterly from the northerly side of Cuba Street, thence southwesterly at a right angle with Shawsheen Road 100 feet, to a point; thence southeasterly on a line parallel with, and distant 100 feet from the southerly side of Shawsheen Road to a point 150 feet from Cuba Street, thence southwesterly and southerly on a line parallel with, and distant 150 feet westerly from the westerly side of Cuba Street to Red Spring Road, thence northeasterly by Red Spring Road to Essex Street, thence easterly by Essex Street to the east side of Shawsheen River; thence southerly along the easterly side of said river to a point distant 100 feet from Essex Street, thence easterly on a line parallel with, and distant

100 feet southerly from the southerly line of Essex Street to the base line of the Boston & Maine Railroad, right of way; thence southerly by said base line to a point in the prolongation of the northerly side of School Street, thence southeasterly by School Street to Central Street, thence southerly by Central Street, to a point distant 150 feet from School Street, thence southeasterly on a line parallel with and distant 150 feet westerly from the westerly side of School Street to Abbot Street, thence easterly by Abbot Street to School Street, thence southeasterly by School Street to Main Street, thence northerly by Main Street to Wheeler Street, thence easterly by Wheeler Street to Bartlet Street, thence easterly on a line in the prolongation of the northerly side of Wheeler Street, to a point 150 feet distant from Bartlet Street, thence northerly on a line parallel with, and distant 150 feet easterly from the easterly line of Bartlet Street to the southerly line of land of the Town of Andover occupied by the Public Schools, thence westerly by the southerly line of said town's land to Bartlet Street, thence northerly by Bartlet Street to Whittier Street, thence easterly by the Southerly line of Whittier Street to an angle. Thence easterly on a line with the southerly line of Whittier Street, produced to a point distant 150 feet from Whittier Street, thence northerly on a line parallel with and distant 150 feet easterly from the easterly line of Whittier Street to Elm Street, thence westerly by Elm Street, to a point distant 150 feet from Wolcott Avenue, thence northerly on a line parallel with and distant 150 feet easterly from the easterly line of Wolcott Avenue to Walnut Avenue, thence by Walnut Avenue, to the dividing line between land of Parmenas W. Partridge and land formerly of John H. Flint, thence northerly and westerly following the easterly and northerly boundary line of said Flint's land to High Street, at a point adjoining Carmel Woods, thence southerly by High Street to Harding Street, thence westerly by Harding Street, to a point distant 200 feet from Main Street, thence northerly on a line parallel with, and distant 200 feet easterly from the easterly line of Main Street, to the Shawsheen River, thence westerly by the Shawsheen River to the point of beginning.

ROOFING MATERIALS

SECTION 58. The roof of every building hereafter erected or recovered in whole or in part within the fire limits herein established, and the top of every wood cornice, the top and sides of every dormer window and every other projection from such roof, shall be covered with fire-resisting material.

Fire-resisting material specified above, shall include slate, tile, asbestos, cement, tar and gravel, plastic slate, copper, tin, heavy asphalt-felt shingles of which the exposed surface is composed of slate chips or gravel, and such other incombustible material as may be approved in writing by the Inspector of Buildings.

This section shall apply to the roof of any tenement house hereafter erected or recovered in whole or in part wherever located.

Nothing in this section shall be construed to prohibit the use of wood shingles in repairing any roof now covered with wood shingles,

provided that the area so repaired shall not exceed one quarter of the total shingled area of the roof and provided the building is not altered in height or otherwise generally reconstructed.

ENFORCEMENT

SECTION 59. The chief of police upon the application of the Building Inspector shall cause complaint to be made before the proper court for any violation of any provision of this by law.

The Board of Selectmen upon the application of the Inspector of Buildings may institute proceedings to enforce this by-law and to enjoin the erection, continuance or occupation of any building in violation of their provisions of this by-law.

PENALTY

SECTION 60. Whoever violates any provision of this by-law shall be punished by a fine not exceeding one hundred dollars for each offense to be paid into the treasury of the town of Andover.

WHEN TAKES EFFECT

SECTION 61. This by-law shall go into effect the first day of April, A. D. 1917.

TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1917

ANDOVER, MASS.
THE ANDOVER PRESS
1918

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TOWN OFFICERS, 1917

Selectmen, Assessors and Overseers of the Poor

HARRY M. EAMES, <i>Chairman</i>	Term expires	1920
CHARLES BOWMAN	" "	1918
WALTER S. DONALD, <i>Secretary</i>	" "	1919

Town Clerk

GEORGE A. HIGGINS

Tax Collector

JOHN W. BELL

Town Treasurer

GEORGE A. HIGGINS

School Committee

EVERETT C. HILTON	Term expires	1918
HENRY A. BODWELL	" "	1918
JOHN C. ANGUS	" "	1918
MARY B. SMITH	" "	1919
FREDERIC G. MOORE	" "	1919
PHILIP F. RIPLEY	" "	1919
ALFRED E. STEARNS	" "	1920
GEORGE A. CHRISTIE	" "	1920
EDWARD C. CONROY	" "	1920

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

THOMAS E. RHODES	Term expires	1920
WILLIS B. HODGKINS	" "	1918
ANDREW McTERNEN	" "	1918
BARNETT ROGERS	" "	1919
CHARLES B. BALDWIN	" "	1919

Superintendent of Water, Sewer Department, Highways and Parks
FRANK L. COLE

Engineers of Fire Department
CHARLES S. BUCHAN, *Chief* WALTER I. MORSE, *Clerk*
JOHN A. RILEY

Board of Health
FRANKLIN H. STACEY Term expires 1918
CHARLES E. ABBOTT, M.D. “ “ 1919
BANCROFT T. HAYNES “ “ 1920

Chief of Police
FRANK M. SMITH

Constables
GEORGE W. MEARS Term expires 1918
FRANK M. SMITH “ “ 1918
THOMAS F. DAILEY “ “ 1918

Trustees of Memorial Hall Library
NATHAN C. HAMBLIN Term expires 1921
GEORGE F. SMITH “ “ 1922
ALFRED E. STEARNS “ “ 1923
BURTON S. FLAGG “ “ 1924
E. KENDALL JENKINS “ “ 1918
REV. WILLIAM H. RYDER “ “ 1919
FREDERIC S. BOUTWELL “ “ 1920

Trustees of Punchard Free School — Terms expire 1919
SAMUEL H. BOUTWELL HARRY H. NOYES
MYRON E. GUTTERSON HARRY M. EAMES
FRANK T. CARLTON

JOHN S. ROBERTSON WALTER H. COLEMAN
NESBIT G. GLEASON

DR. WILLIAM D. WALKER	Term expires	1918
ALLAN SIMPSON	" "	1919
JOHN C. ANGUS	" "	1920

JOHN H. PLAYDON

JOHN H. PLAYDON

ALFRED L. RIPLEY

CHARLES W. CLARK
PATRICK J. SCOTT

JOHN F. HURLEY
GEORGE A. HIGGINS, *Clerk*

FELIX G. HAYNES	DANIEL H. POOR
WALTER I. MORSE	WARREN L. JOHNSON
GEORGE D. MILLETT	JOHN W. BELL

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TOWN MEETING

Annual Town Meeting March 5, 1917

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the fifth day of March, 1917, at 6 o'clock A.M., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Trustee of Memorial Hall Library for four years, one Trustee of Memorial Hall Library for two years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, one Trustee of Spring Grove Cemetery for two years to fill vacancy, Fence Viewers, Pound Keeper, and any other officers the town may determine.

Article 2. To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and

Playsteads, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will raise and appropriate the sum of \$10,000 and authorize the High School Building Committee to expend the same to build a passageway between the old and new Punchard buildings and to make further improvements on the old Punchard building and to provide additional equipment, upon recommendation of the High School Building Committee.

Article 5. To see if the Town will appropriate a sum of money not exceeding \$5000.00 to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, together with the unexpended appropriation of 1916, on petition of the Board of Public Works.

Article 6.—To see if the town will appropriate the sum of \$3000 for additions to the filter beds as ordered by the State Board of Health, on petition of the Board of Public Works.

Article 7.—To hear and act upon the report of the Committee on Building Laws and to pass any bylaws on that subject.

Article 8.—To see if the town will authorize the Board of Public Works to establish a service for the removal of ashes and garbage from dwellings, stores, etc., in the central section of the town, partial payment for such service to be secured by a reasonable assessment upon owners of property benefited, and the balance to be paid by the town; and to appropriate \$1500 therefor.

Article 9—To see if the town will vote to authorize the Board of Public Works to construct a gate to close the underground

drain of the playstead during the winter months in order to form a skating-pond and appropriate the sum of one hundred dollars for the same, upon petition of W. E. Lombard and others.

Article 10.—To see if the town will appropriate the sum of \$2000 for the purpose of installing an electric engine in the pumping station on Bancroft Road, on petition of the Board of Public Works.

Article 11.—To see if the town will appropriate a sum not exceeding \$4000 for the purpose of building a concrete bridge across the Shawsheen River on Central Street, on petition of the Board of Public Works.

Article 12.—To see if the town will vote to extend the Water System from its present terminal on Lowell Street a distance of 5600 feet to Brown Street, then 3900 feet on Brown Street, on petition of Charles W. Livingston and others, and appropriate \$11,500 for same.

Article 13.—To see if the town will install water-pipes in Chandler Road from the hydrant now located in Chandler Road opposite the Kasabian Farm, in a general northwesterly direction along Chandler Road to the Railroad bridge, and also to install water-pipes from the junction of Beacon Street and Chandler Road in a general northeasterly direction to the Keating place, and to appropriate a sum of money therefor.

Article 14.—To see if the town will vote to establish a fire alarm box on Main Street, at a point between the properties of the Tyer Rubber Company and Dionisio Michellini, or thereabouts, on petition of Dionisio Michellini and others, and appropriate a sum of money therefor.

Article 15.—To see if the town will vote to extend the sewer on Summer Street from Pine Street to a point 1400 feet distant, and appropriate the sum of \$3000, the same to be expended under the direction of the Board of Public Works and to assess betterments upon the estates benefited by the said extension, on petition of the Board of Health.

Article 16.—To see if the town will vote to place an electric light on this side of the residence of David Cunningham on Shawsheen Road and appropriate a sum of money therefor, on petition of David Cunningham and others.

Article 17.—To see if the town will vote to place an electric light in front of Indian Ridge School on Cuba Street and appropriate a sum of money therefor, on petition of James A. Nolan and others.

Article 18.—To see if the town will vote to accept the provision of Section 37, Chapter 19, of the revised laws, in so far as it relates to the regular and permanent Police force of the Town of Andover.

Article 19.—To see if the town will vote to amend its bylaws by inserting under Article 4 thereof the following section to be numbered 12.

(12) The selectmen may license suitable persons as junk collectors, to collect by purchase or otherwise, junk, old metals, and second-hand articles from place to place in the town of Andover. Said licenses shall be granted on or before the first day of May in each and every year. No license as a junk collector shall be issued to a person who is not a citizen of the United States. Licenses for the collection of junk may be issued as aforesaid to persons who do not reside within the Town of Andover, but the number of such non-resident licenses shall not exceed one to every two thousand of the population as ascertained by the next preceding official census. The fee for licenses for the collection of junk shall be as follows:—

Resident collectors	\$ 5.00
Non-resident collectors	\$25.00

Article 20.—To fix the pay of the firemen for the ensuing year.

Article 21.—To determine the method of collecting the taxes for the ensuing year.

Article 22.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 23.—To determine what disposition shall be made of unexpended appropriations.

Article 24.—To act upon the report of the Town officers.

Article 25.—To determine the amount of money to be raised by taxation the ensuing year.

Article 26.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by the By-laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this nineteenth day of February, A.D. 1917.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

ANDOVER, MARCH 5, 1917

ESSEX, SS.

Pursuant to the foregoing warrant, I the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH
Constable

ANNUAL TOWN MEETING, MARCH 5, 1917

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in Town affairs convened in the Town House in said Andover on Monday the fifth day of March, 1917, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and after reading a part of the warrant, it was

Voted, To dispense with the further reading of the warrant.

Voted, To Take up Articles 1 and 2 together.

Voted, That the polls be closed at 2 o'clock p.m.

Took up Articles 1 and 2 and proceeded to vote for Town Officers and on the Liquor License question by the Australian ballot system.

The Ballot box was found to be empty and registered 0000. The polls opened at six o'clock a.m., and closed at 2 o'clock p.m., as voted. The total number of ballots cast was 820, forty-three (43) of which were female ballots for School Committee only.

The result of the balloting was as follows:—

MODERATOR — One year:

Alfred L. Ripley	644
Blanks	133

TOWN CLERK — One year

George A. Higgins	630
Blanks	147

TOWN TREASURER — One year:

George A. Higgins	607
Blanks	170

SELECTMAN — Three years:

Gordon R. Cannon	197
Harry M. Eames	541
Blanks	39

ASSESSOR — Three years:

Gordon R. Cannon	200
Harry M. Eames	527
Blanks	50

COLLECTOR OF TAXES — One year:

John W. Bell	621
Blanks	156

SCHOOL COMMITTEE — Three years:

George A. Christie	541
Edward C. Conroy	446
Mary W. French	427
Alfred E. Stearns	591
Blanks	455

BOARD OF HEALTH — Three years

Bancroft T. Haynes	556
Blanks	221

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION —
Three years

Philip L. Hardy	283
Thomas E. Rhodes	292
William A. Trow	165
Blanks	37

AUDITORS OF ACCOUNTS — One year:

Walter H. Coleman	560
Nesbit G. Gleason	587
John S. Robertson	636
Blanks	548

CONSTABLES — One year:

Thomas F. Dailey	563
George W. Mears	535
Frank M. Smith	581
Blanks	652

TRUSTEES OF MEMORIAL HALL LIBRARY — Four years:

Nathan C. Hamblin	573
Blanks	204

TRUSTEE MEMORIAL HALL LIBRARY — Seven years:

Burton S. Flagg	598
Blanks	179

TRUSTEE MEMORIAL HALL LIBRARY — Two years:

William H. Ryder	572
Blanks	205

TREE WARDEN — One year:

John H. Playdon	593
Blanks	184

Shall Licenses be granted for the sale of intoxicating liquors in this town?

Yes	221
No	501
Blanks	55

All the foregoing officers and question were voted on by ballot and the check lists were used.

REPORT OF PRECINCT CLERK

ANDOVER, MASS., MARCH 5, 1917

Polls open at 6 a.m., Ballot box registered 0000. Ballot box registered when polls closed 819. Number of regular ballots received 1700, number of female ballots received 200. Number regular ballots returned 969. Number of female ballots returned 157. Number of female ballots cast 43. Number of male ballots cast 777. Polls closed at 2 p.m.

DANIEL A. COLLINS,
Precinct Clerk

The Moderator declared —

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Harry M. Eames elected Selectman for one year.

Harry M. Eames elected Assessor for one year.

John W. Bell elected Collector of Taxes for one year.

George A. Christie elected School Committee for three years.

Edward C. Conroy elected School Committee for three years.

Alfred E. Stearns elected School Committee for three years.

Thomas E. Rhodes elected Board of Public Works and Sinking Fund Commission for three years.

Bancroft T. Haynes elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

Nesbit G. Gleason elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Thomas F. Dailey elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Burton S. Flagg elected Trustee of Memorial Hall Library for seven years.

Nathan C. Hamblin elected Trustee of Memorial Hall Library for four years.

William H. Ryder elected Trustee of Memorial Hall Library for two years.

John H. Playdon elected Tree Warden for one year.

Chose Trustee of Cornell Fund—John C. Angus for three years.

Chose Trustee of Spring Grove Cemetery — Warren L. Johnson for two years.

Chose Fence Viewers for one year — James Saunders, Raymond L. Buchan, George W. Mears.

Chose Street Lighting Committee (appointed by the Moderator) — Walter H. Coleman, Colver J. Stone, Edwin E. Perry, Henry J. Gardner, Joseph L. Burns.

Chose Finance Committee for one year (appointed by the Moderator) — George Abbot, Samuel H. Boutwell, John H. Campion, Walter M. Lamont, Chester W. Holland, Henry W. Barnard.

Town Pound — *Voted*, That Town Barn and Barnyard be the Town Pound and that the Superintendent of the Town Farm be the keeper.

Took up Article 3.

Voted — To appropriate the following stated sums of money:—

Almshouse Expenses	\$ 4500 00
Almshouse repairs	250 00
Relief out of Almshouse	4300 00
Aiding Mothers with Dependent children	500 00
Board of Health	2000 00
Brush Fires	800 00
Fire Department, running expenses and new hose.	9200 00
Hay Scales	125 00
Highway Department, Sidewalks, Snow	36500 00
(Also St. Railway Tax and Street Sprinkling, \$1500 to be spent under Betterment Act)	
Insurance	1900 00
Insurance (Workmen's Compensation)	1600 00
Interest	17000 00
Memorial Hall Library	1800 00
Memorial Day	350 00
Post 99, G. A. R.	100 00
Miscellaneous	2000 00
Parks and Playsteads	1500 00
<hr/>	
<i>Amount carried forward</i>	<i>\$84425 00</i>

<i>Amount brought forward</i>	\$84425 00
Police	5000 00
Printing and Stationery	1200 00
Public Dump	75 00
Retirement of Veterans, Acts 1912	300 00
Redemption of Water Bonds	12949 22
Redemption Punchard School Bonds	2861 89
Redemption Andover Loan Act Bonds	5000 00
Schools	52500 00
Sewer Department Maintenance	2500 00
Sewer Department Sinking Fund	1000 00
Soldier's Relief	900 00
Spring Grove Cemetery (and receipts from sale of lots)	2500 00
State Aid	1300 00
Street Lighting	6500 00
Town Officers	6700 00
Town House	2000 00
Tree Warden, Gypsy and Browntail Moth Dept.	3500 00
Water Department	
Maintenance	11000 00
Construction	1500 00
Sinking Fund	750 00
Lowell Street — Article 5	2500 00
Filter Beds — Article 6	3000 00
Gate for Playstead drain — Article 9	100 00
Pumping Plant — Article 10	4000 00
Fire Alarm Box — Article 14	200 00
Sewer — Summer Street — Article 15	3000 00
	<hr/>
	\$217261 11
Estimated State Tax	23000 00
Estimated County Tax	16000 00
	<hr/>
	\$256261 11

Took up Article 4.

Voted, at 4.12 p.m., That the town raise and appropriate the sum of \$10,000. and authorize the High School Building Com-

mittee to expend the same to build a passageway between the old and new Punchard buildings and to make further improvements on the old Punchard building and to provide additional equipment.

That for the purpose of building a passageway between the old and new Punchard Buildings and providing additional equipment:

The Town Treasurer is hereby authorized to issue and sell bonds of the Town to an amount not exceeding \$10,000., dated August 1st, 1917 and payable \$1,000. thereof on the 1st of August in each of the years 1918-1927 inclusive, bearing interest at a rate of 4% per annum, payable semi-annually. The said bonds shall be denominated on their face Andover High School Loan 1917.

The vote stood — Yeas 231, Nays, 5.

Took up Article 5.

Voted, at 4.18 p.m., That the town appropriate a sum of money not exceeding \$2500, to continue the macadam on Lowell Street, the same to equal an amount which the State and County will severally appropriate, together with the unexpended appropriation of 1916.

Took up Article 6.

Voted, at 4.19 p.m., That the Town appropriate the sum of \$3000, for additions to the filter beds as ordered by the State Board of Health.

Took up Article 7.

Voted, at 4.22 p.m., To accept the report of the Committee on Building Laws and that the code of By-Laws as drafted by said Committee be adopted by the town.

By unanimous consent of the meeting Hon. John N. Cole, presented the following resolutions, which were unanimously adopted:

"The citizens of Andover, assembled in Annual Town Meeting, in recognition of the result of long and honorable service in securing for the town one of its most important public benefits, the town water supply, extend to John L. Smith and Felix G. Haynes, hearty felicitations upon their important part in the progress of the town for more than a quarter century, and their earnest wishes for the largest possible measure of comfort and cheer in their declining years."

Took up Article 8.

Voted, at 4.36 p.m., That the question of the removal of ashes from dwellings, stores, etc. in the section of the town designated by the building laws as the Fire District be referred to the Board of Public Works for investigation, and the removal of garbage to the Board of Health, both of said Boards to report at the next annual Town Meeting.

Took up Article 9.

Voted, at 4.45 p.m., That the town authorize the Board of Public Works to construct a gate to close the underground drain of the Playstead during the winter months in order to form a skating-pond and appropriate the sum of one hundred dollars for the same.

Took up Article 10.

Voted, at 5.18 p.m., That the sum of \$4,000. be appropriated for the use of the Board of Public Works to be used in constructing a two-unit auxiliary pumping plant within the Reservoir Circle in place of the present pumping station, and in extending an eight-inch water-main and gates necessary to connect with the present high pressure water-main, and that the Board of Public Works be authorized to sell the present pump unit and building, the proceeds to be used by the Board in making said changes.

Took up Article 11.

Voted, at 5.34 p.m., That the Selectmen be instructed to petition the County Commissioners to lay out Andover Street so-called from a point 200 feet west of Argilla Road to the B. & M. R. R. bridge, and Central Street so-called from this point to Railroad Street or Lupine Road, so-called, to alter, widen or relocate said highway, or order specific repairs on the same including the bridge, or abutments of the bridge of the B. & M. R. R. also the bridge crossing the Shawsheen River, in accordance with the Revised Laws, Chapter 46, Sections 1 and 9.

Took up Article 12.

Voted, at 5.35 p.m., To indefinitely postpone.

Took up Article 13.

Voted, at 5.36 p.m., To indefinitely postpone.

Took up Article 14.

Voted, at 5.38 p.m., To establish a fire alarm box on Main Street, at a point between the properties of the Tyer Rubber Company and Dionisio Micheline, or thereabouts and to appropriate the sum of \$200 therefor.

Took up Article 15.

Voted, at 5.40 p.m., That the town extend the sewer on Summer Street from Pine Street to a point 1400 feet distant and appropriate the sum of \$3000, the same to be expended under the direction of the Board of Public Works and to assess betterments upon the estates benefited by the said extension.

Took up Article 16.

Voted, at 5.41 p.m., To refer to the Lighting Committee.

Took up Article 17.

Voted, at 5.42 p.m., To refer to the Lighting Committee.

Took up Article 18.

Voted, at 5.43 p.m., To indefinitely postpone.

Took up Article 19.

Voted, at 6 p.m., To indefinitely postpone.

Took up Article 20.

Voted, at 6.02 p.m., That the pay of the firemen be \$75 per year.

Took up Article 21.

Voted, at 6.03 p.m., That the taxes be collected by the Tax Collector and that he receive one per cent of all moneys collected and that interest be charged at the rate of six per cent per annum from October 15th on all taxes remaining unpaid after November 1st.

Took up Article 22.

Voted, at 6.04 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1st, 1917, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 23.

Voted, at 6.05 p.m., That all unexpended balances be turned into the treasury with the exception of \$716.39 the Lowell Street appropriation of 1916.

Took up Article 24.

Voted, at 6.06 p.m., That the report of the Town Officers be accepted.

Took up Article 25.

Voted, at 6.08 p.m., To raise by taxation \$152,000, and also an amount sufficient to meet the State and County taxes.

Took up Article 26.

Voted, at 6.20 p.m., To adopt unanimously the following resolutions:

Whereas the German Imperial Government has, as the President has said, forbidden to our people the exercise "of their peaceful and legitimate errands on the high seas," and Whereas, in consequence, the President of the United States has severed diplomatic relations with Germany, be it

Resolved, by the citizens of Andover, in Town Meeting assembled this fifth day of March, 1917:

First, That they commend the President for his uncompromising stand in severing diplomatic relations.

Second, That they rely upon the President to protect American citizens and American ships in their acknowledged rights on the high seas.

Third, That they decry the mortifying and unpatriotic action of certain United States Senators in failing to adopt legislation necessary for the protection of the safety and honor of the American people.

Fourth, That while they desire peace, they desire peace only with honor, and call upon the President to uphold at this time the honor of the American people.

Voted, at 6.12 p.m., That the meeting be dissolved.

The foregoing is a true copy of the Warrant and of the Officer's return on the same, also a true record of the doings of the meeting.

ATTEST,

GEORGE A. HIGGINS,

Town Clerk

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 5, 1917	\$52500 00
Received for tuition and supplies	1217 07

\$53717 07

Nathan C. Hamblin, teaching	\$1438 13
Eugene V. Lovely, teaching	1347 38
Mary L. Smith, teaching	909 16
Elizabeth M. Loftus, teaching	884 23
Mary Remmes, substitute	376 50
Portia Clough, teaching	256 50
Lois J. Reed, teaching	709 20
Edna Simmons, teaching	755 27
Clara Putnam, teaching	938 71
Eleanor Irving, teaching	82 08
Bernice B. Abbott, teaching	684 20
Bernice G. Stimpson, teaching	709 20
Cecilia Derrah, teaching	709 20
Carolyn Dean, teaching	709 20
Etta M. Dodge, teaching	799 90
Alice S. Coutts, teaching	769 77
Cynthia Flint, teaching	413 10
Katherine Hannon, teaching	709 20
Olive D. Waterhouse, teaching	609 11
Elizabeth Otte, teaching	382 82
E. Mae Chase, teaching	684 20
Florence I. Abbott, teaching	709 20
Adele Duval, teaching	709 20
Florance Prevost, teaching	709 20
Helen E. Hartford, teaching	719 76

Amount carried forward

\$17724 42

Appropriation and Receipts

\$53717 07

<i>Amount brought forward</i>	\$17724 42
Sara G. Cummings, teaching	352 61
Florence Dunton, teaching	609 11
Jessie P. Brown, teaching	659 12
Grace Hill, teaching	829 60
Blanche Spaulding, teaching	559 18
Marion Boehm, teaching	464 44
Rubina S. Copeland, teaching	709 20
Edith Johnson, teaching	528 28
Irene Rutherford, teaching	87 50
Helen M. Battles, teaching	754 59
Emma L. Ward, teaching	684 20
Emily F. Carleton, teaching	704 58
Mildred B. Morris, teaching	609 11
Eilene Powers, teaching	609 11
Helen K. Hardy, teaching	337 51
Ella S. Morrill, teaching	689 46
Hallie Stimpson, teaching	634 19
Pauline Meyer, teaching	504 70
Paula Clough, teaching	484 90
Vivian Taylor, teaching	419 64
William B. Hazelton, teaching	628 33
Henry C. Sanborn, superintendent	2418 49
Georgianna Lovejoy, clerk	365 50
Beatrice Trombley, substituting	12 50
Irene Rutherford, substituting	17 50
Edith Johnson, substituting	3 75
Miss P. Coppinger, substituting	415 32
Grace Thomas, substituting	180 00
Grace Murray, substituting	5 00
Laura Spence, substituting	25 00
Anne M. Downes, teaching	372 60
Genevieve McNally, teaching	248 00
Louise Magoon, teaching	226 95

Amount carried forward

\$33874 39

Appropriation and Receipts	\$53717 07
<i>Amount brought forward</i>	\$33874 39
Anna Nelson, teaching	236 85
Irene Arnold, substituting	12 50
Louisa Dupres, substituting	5 00
Margaret Kimball, substituting	1 25
James A. Eaton, janitor	373 32
James McGhie, janitor	438 32
William McEwan, janitor	268 31
Granville K. Cutler, janitor	186 64
John Crowley, janitor	186 64
William Flint, janitor	96 00
George Spickler, janitor	96 00
Herbert White, janitor	1157 43
Annie McIntosh, matron	228 00
Patrick Driscoll	324 00
Mrs. Eleanor Earley	79 13
Bay State St. Ry., transportation	960 00
County of Essex, tuition	113 72
Boston & Maine R. R., transportation	949 91
Alvah Wright, transportation	600 00
T. F. Morrissey & Son, team hire	130 50
Lawrence Gas Co., lighting	226 15
New England Tel. and Tel. Co.	83 38
Charles H. Newton, transportation	480 00
Charles H. Newton, labor	14 74
Myerscough & Buchan, hire	11 00
W. A. Allen, supplies	20 95
Benjamin Jaques, wood	10 00
Winthrop S. Boutwell	2 56
Leonard Saunders, police duty	5 50
Andover Press, printing and supplies	276 15
F. H. Stacey, supplies	32 60
H. B. Abbott	1 50
Curtis L. Wilson	1 50
<i>Amount carried forward</i>	\$41483 94

Appropriation and Receipts

\$53717 07

<i>Amount brought forward</i>	\$41483 94
J. H. Playdon, plants	16 00
Henry C. Sanborn, sundries	83 94
Neostyle Co., supplies	9 10
H. B. McArdle, supplies	29 79
Robert Hutcheson, supplies	3 45
J. H. Campion & Co., supplies	257 76
T. A. Holt Co., supplies	55 50
Hiller & Co., supplies	6 14
Sarah E. Riley, supplies	55
Loose Wiles Co., supplies	4 96
Alice V. Howell, labor	27 60
W. I. Morse, supplies	111 72
Chandler & Barber, supplies	59 64
D. W. Pingree & Co., wood	68 96
S. A. Courtis, supplies	8 46
Silver Burdett & Co., supplies	48 55
Allyn & Bacon, supplies	36 07
D. C. Heath & Co., supplies	70 57
Little Brown & Co., supplies	29 84
A. N. Palmer Co., supplies	30 15
American Book Co., supplies	114 32
Houghton Mifflin Co., supplies	33 05
Ginn & Co., supplies	320 38
Edward E. Babb & Co., supplies	651 04
J. L. Hammett Co., supplies	93 94
J. W. Richardson, labor and supplies	114 66
C. A. Hill & Co., supplies	77 53
Ira Buxton, supplies	5 65
Bride Grimes & Co., supplies	113 66
City of Lawrence, Industrial School	46 62
City of Lowell, Industrial School	100 00
Wright's Express	17 75
Frances L. Otis, labor	17 55
<i>Amount carried forward</i>	\$44148 84

Appropriation and Receipts	\$53717 07
<i>Amount brought forward</i>	\$44148 84
Wright & Stafford, supplies	483 38
Mary J. Remmes, sundries	96
Curtis Standard Research Test	13 16
Massachusetts Child Labor Committee	3 00
C. S. Birchard & Co., supplies	8 27
Chester D. Abbott, milk	107 45
M. E. Dalton, supplies	22 64
Walter M. Lowney Co., supplies	37 01
Cross Coal Co., coal	2015 84
James J. Abbott, wood	44 50
Board of Public Works, water	605 83
R. P. Burnham	34 80
Treat Hardware Co., supplies	6 85
H. I. Daltman Co., supplies	66 18
Frank E. Dodge	83 25
Philip L. Hardy, labor	1 10
William M. Flint, labor	1 50
Paula Clough, sundries	1 20
American Express Company	15 78
James Napier, truant officer	36 47
Andover Coal Co., coal	1701 29
James S. May, painting	379 60
Theophilus Muise, repairing	1 75
Frank E. Whiting, repairing	15 00
Grace Woodburn, school nurse	110 00
Andover Steam Laundry	40
W. H. Sylvester, tuning pianos	5 25
Lawrence Lumber Co., lumber	61 08
Buchan & McNally, plumbing and repairs	347 29
N. C. Hamblin, sundries	20 69
Bennett Brothers Co., supplies	842 12
Knox Morse Co., supplies	6 25
Fannie S. Lewis, labor	7 30
<i>Amount carried forward</i>	\$51236 03

Appropriation and Receipts

853717 07

<i>Amount brought forward</i>	51236 03
Atkinson Mentzer & Co., supplies	3 59
Underwood Typewriter Co., supplies	50
The Riverdale Press, supplies	8 94
Oliver Ditson Co., supplies	10 30
H. Sanford Leach	3 50
Tyer Rubber Co., supplies	4 00
Allen F. Abbott, labor	9 00
Charles F. Emerson	6 84
Buchan & Francis	72 19
John Haggerty	8 00
John Crowley, labor	1 00
Edward C. Conroy, M. D.	5 00
Wm. D. Walker, M. D.	195 00
Joseph Melanson, labor	2 00
M. J. Stack	18 50
Diamond Spring Water Co., water	28 40
Haynes & Juhlmann, supplies	2 40
Smith & Dove Mfg. Co., supplies	15 26
Burdett & Williams Co., supplies	30 10
Knipe Brothers, repairs	76 27
American Seating Co., supplies	2 00
D. Appleton & Co., supplies	4 25
Milton Bradley & Co., supplies	46 66
F. G. Barnard & Co., supplies	205 23
Peter Becket	6 25
L. E. Knott, apparatus	43 01
E. McCabe	3 65
Dionecio Michelini, police duty	10 00
Herbert L. White, police duty	10 00
D. Donovan & Son, repairing	220 00
Andrew Wilson, repairs	178 00
W. F. Duffee & Co., supplies	310 00
Mrs. E. M. Earley, labor	3 51
<i>Amount carried forward</i>	52779 38

Appropriation and Receipts

\$53717 07

<i>Amount brought forward</i>	\$52779 38
S. K. Ames, supplies	12 82
H. F. Chase, supplies	2 50
West Disinfecting Co., supplies	7 50
L. C. Smith Bros., supplies	200 00
George T. Johnson & Co., supplies	60 75
M. T. Walsh & Co., labor	130 81
The Macmillan Publishing Co., supplies	14 13
J. H. Mendell Co., supplies	17 67
Anderson & Bowman, repairing	5 40
Arden Farm, supplies	45 50
Grace Hill, carfares	1 00
Scott T. Shattuck & Son	50
W. H. Coleman & Co., supplies	1 00
Goldsmith Clark Co., supplies	65
Daniel O'Neill, supplies	12 00
The Gregg Publishing Co., supplies	44 69
William L. Frye, truant officer	50 60
James McGhie, labor	2 00
A. S. Barnes Co., sundries	49
G. B. Robbins Co., supplies	8 00
William Holden, repairing	7 65
United Roof Coating Co., repairing	250 00
Fresh Air Fund, supplies	18 50
Amigraph Supplies Co., supplies	1 61
Richard P. Whitten, repairs	21 75
A. A. Hardy, wood	5 00
Charles L. Bailey, wood	9 00
Total expenditure	53710 90
Balance unexpended	6 17

\$53717 07 \$53717 07

NEW HIGH SCHOOL BUILDING

Balance from last year	\$69474 09
Rebate on bill	1 02
Appropriation March 5, 1917, 10 Bonds and Interest	10011 11
Interest on deposit (1916)	433 54
Interest on deposit (1917)	1330 30
	<hr/>
	81250 06
J. H. Mendell Co.	\$54378 81
Fisher, Ripley & LeBoutillier	1606 09
Bride Grimes Co.	13412 13
Suffolk Engraving Co.	9 15
D. W. Pingree Co.	338 50
Olmstead Brothers	50 96
John Franklin	32 50
Columbus School Supply Co.	286 07
Boston & Maine R. R.	24 79
Dionecio Michelini	5 00
Scientific Equipment Co.	676 90
Hollis French & Allen Hubbard	440 54
Scott Shattuck	23 77
Old Colony Trust Co.	75 00
Macey, Stetson Morris Co.	22 50
Thompson Speare Co.	468 43
Wright Stafford & Son	2000 00
Chandler & Barber	11 83
W. R. Brewster	3 60
Buchan & Francis	2593 10
Lawrence Gas Co.	85 40
	<hr/>
<i>Amount carried forward</i>	\$76545 07

Appropriation and Receipts		\$81250 06
<i>Amount brought forward</i>	\$76545 07	
George B. Cressey	55 00	
Buchan & McNally	10 88	
Board Public Works	118 99	
Hopkinson & Holden	100 00	
Robertson & Sutherland	24 97	
Express	2 60	
Smith & Dove Co.	5 21	
J. Wilkinson Co.	446 05	
H. I. Dallman Co.	44 78	
Pittsburgh Plate Glass Co.	5 62	
Premium for redemption of bonds	2138 11	
M. J. Stack	10 50	
	<hr/>	
Total expenditure	79507 78	
Balance unexpended	1642 28	
	<hr/>	
	\$81250 06	\$81250 06

TOWN OFFICERS

Appropriation March 5, 1917	\$6700 00
George A. Higgins, treasurer	\$600 00
George A. Higgins, town clerk, and clerk of selectmen	900 00
Walter S. Donald, selectman, assessor and overseer of the poor	600 00
Charles Bowman, selectman, assessor and overseer of the poor	600 00
Harry M. Eames, chairman selectmen, assessors and overseers of the poor	700 00
Walter H. Coleman, auditor	50 00
Nesbit G. Gleason, auditor	50 00
John L. Robertson, auditor	50 00
Alfred L. Ripley, moderator	10 00
Daniel J. Murphy, town counsel	398 25
Registrars of voters	134 00
Election officers, town meeting	75 00
Election officers, Precinct 1, primary	67 00
Apr. 9. Election officers Pre. 2, primary	40 00
May 14. Election Officers Pre. 1, Consti- tutional Convention	75 00
May 14. Election officers Pre. 2, Consti- tutional Convention	40 00
Oct. 8. Election officers Pre. 1, State pri- maries	65 00
Oct. 8 Election officers Pre. 2, State pri- maries	45 00
Nov. 12. Election officers Pre. 1, State election	75 00
<i>Amount carried forward</i>	<hr/> \$4574 25

Appropriation March 5, 1917		\$6700 00
<i>Amount brought forward</i>	\$4574 25	
Nov. 12. Election officers Pre 2, State election	40 00	
Dr. J. J. Daly, town physician	200 00	
John W. Bell, collector	1632 61	
Wm. C. Crowley, sealer of weights and measures	172 50	
Ira B. Hill, field driver	26 50	
	<hr/>	
Total expenditure	6645 86	
Balance	54 14	
	<hr/>	
	\$6700 00	\$6700 00

TOWN HOUSE

Appropriation March 5, 1917		\$2000 00
George W. Mears, janitor	\$ 720 00	
William Knipe Co., labor and supplies	81 07	
T. A. Holt Co., supplies	3 50	
Lawrence Gas Co., gas and electricity	179 18	
John W. Richardson, labor	50 33	
Walter I. Morse, supplies	24 22	
Peoples Ice Co., ice	16 00	
David M. May, labor	31 00	
Morandi Proder Co., supplies	4 13	
Leonard Saunders, police duty	20 50	
Ira Buxton, supplies	6 50	
Frank L. Dodge, supplies	3 45	
D. P. Webster, police duty	2 50	
C. A. Hill & Co., supplies	13 97	
Anderson & Bowman, labor	3 85	
Sadie W. Hobbs, laundry	8 63	
Buchan & Francis, supplies	11 50	
Wright's Express	45	
Theo Muise, repairing flag	3 00	
Andover Coal Co., coal	356 15	
American Awning & Tent Co., flag	18 00	
James S. May	75	
Davis Foundry Co., grate	3 00	
H. I. Dallman, dust layer	7 78	
Total expenditure	\$1569 46	
Balance	430 54	
	\$2000 00	\$2000 00

FIRE DEPARTMENT

Appropriation March 5, 1917		\$9200 00
Fire alarm box		200 00
Earnings of teams		1168 30
		<hr/> 10568 30
Poor & Riley, grain	\$ 249 20	
Haynes & Juhlmann, grain	34 05	
Tyer Rubber Co., blowing fire whistle	50 00	
Buchan & McNally, supplies	39 68	
Morrison & O'Connell, supplies	23 65	
T. Haggerty, labor	28 40	
Walter I. Morse, supplies	87 66	
Walter I. Morse, engineer	100 00	
American La France Fire Engine Co., supplies	21 53	
W. H. Coleman & Co., gasoline	41 35	
The Gamewell Fire Alarm and Tel. Co., fire alarm box	177 50	
The Gamewell Fire Alarm and Tel. Co., supplies	135 56	
J. W. Winchester, professional services	10 25	
Myerscough & Buchan, supplies	74 94	
Fred Adams, labor	1 50	
Frank L. Cole	4 50	
J. H. Campion & Co., grain, etc.	42 08	
Joseph Rand	25 00	
T. A. Holt Co., grain	73 92	
Andover Steam Laundry	22 92	
Crowley & Co., horse medicine	7 00	
George Dick	2 06	
	<hr/>	
<i>Amount carried forward</i>	\$1252 75	

Appropriation and Receipts		\$10568 30
<i>Amount brought forward</i>	\$1252 75	
T. F. Morrissey & Son, straw, etc.	23 59	
P. J. Daly, grain	39 74	
F. H. Stacey, horse medicine	92	
Lawrence Gas Co.	78 18	
Andover Coal Co., coal	350 35	
New England Tel. & Tel. Co.	59 18	
D. A. Collins, repairs	75	
R. M. Haynes, grain	55 05	
H. M. Eames, hay	128 28	
R. A. Bailey, hay	128 03	
C. A. Hill, supplies	40 56	
Ira Buxton, repairs and gasoline	49 61	
L. Resnick	4 00	
Payroll Engine Co. No. 2	560 00	
Payroll Engine Co. No. 1	1175 00	
Buchan & Francis, supplies	38 00	
Smith & Manning, grain	19 20	
O. F. Kress & Son, repairs	5 00	
A. S. Manning, grain	23 10	
John Collins	1 00	
John Haggerty, use of telephone	25 44	
Dayton Tire Co., tires	421 65	
A. W. Lowe, medicine	88	
Louis W. Betts	42 40	
J. E. Pitman, repairs	26 75	
Anderson & Bowman, shoeing horses	79 95	
C. F. Emerson	4 00	
A. M. Colby	34 95	
Frank L. Dodge	2 20	
W. F. Taylor	3 00	
John L. Morrison, shoeing horses	67 80	
W. & C. Beck, hose	210 00	
<i>Amount carried forward</i>	\$4951 31	

Appropriation and Receipts		\$10568 30
<i>Amount brought forward</i>	\$4951 31	
S. T. Shattuck	1 30	
C. S. Buchan, chief	150 00	
John A. Riley, engineer	100 00	
J. W. Stark	5 00	
P. Murnane	100 00	
Boston Woven Hose Co., fire hose	280 00	
E. W. Boutwell, hay	32 00	
American Express Co.	4 89	
Knipe Brothers, labor and supplies	9 09	
Wright's Express	1 60	
Board of Public Works	42 22	
Ivan E. Steadman, chauffeur	1092 00	
George Dick, chauffeur	1056 00	
Lester Hilton, chauffeur	1092 00	
John Collins, driver	781 00	
John Haggerty, driver	866 00	
	<hr/>	
Total expenditure	10564 41	
Balance	3 89	
	<hr/>	
	\$10568 30	\$10568 30

BRUSH FIRES

Appropriation March 5, 1917		\$800 00
Ira Buxton et al	\$ 25 25	
A. P. Wright, et al	57 25	
Buchan & Francis	8 00	
American La France Engine Co.	12 00	
C. S. Buchan et al	35 75	
George C. Dunnells et al	7 75	
Charles A. Hill et al	17 00	
N. G. Gleason et al	6 00	
Frank Davis et al	25 00	
William Carter et al	4 00	
Chester H. Harnden et al	9 00	
R. Bruce et al	12 00	
	<hr/>	
Total expenditure	219 00	
Balance	581 00	
	<hr/>	
	\$800 00	<hr/> \$800 00

POLICE

Appropriation, March, 1917		\$5000 00
Received from County, dogs killed		42 00
		<hr/> 5042 00
Frank M. Smith, chief	\$1258 33	
James Napier, regular police	953 00	
Daniel D. Webster, regular police	953 00	
William L. Frye, regular police	953 00	
Frank M. Smith, carfare, etc.	8 54	
Frank Carse, special police	27 00	
Iver Johnson Sporting Goods Co., supplies	51 25	
Ralph Bruce, police duty, B. Vale	72 00	
Buchan & Francis, supplies	75	
Thos. F. Morrissey & Son, auto hire	46 50	
Buchan & McNally, supplies	4 25	
Thomas F. Dailey, police duty, B. Vale	72 00	
Theo. Muise, repairs	2 50	
J. G. Johnston & Co.	34 50	
C. F. Emerson	3 51	
George C. Dunnells, police duty	2 10	
Daniel P. Webster, carfare, etc.	4 50	
Gray & Kendall, labor	30	
Leonard Saunders, police duty	64 35	
Leonard Saunders, killing dogs	42 00	
David M. May, police duty	20 00	
James W. Walker, police duty	42 00	
New England Tel. & Tel. Co., telephone	68 71	
C. H. Newton, police duty	18 36	
Michael T. Welch, police duty	115 85	
James H. Green, auto hire	8 00	
	<hr/>	
<i>Amount carried forward</i>		\$4826 30

Appropriation and Receipts		\$5042 00
<i>Amount brought forward</i>	\$4826 30	
Myerscough & Buchan, auto hire	16 25	
John L. Morrison, repairs	1 00	
Chester N. Boutwell, police duty	5 00	
C. A. Hill & Co., supplies	2 00	
The Traffic Sign Co.	18 00	
Wright's Andover Express	75	
American Express	26	
Walter I. Morse, supplies	18 64	
Ira Buxton, supplies	1 10	
O. P. Chase, supplies	3 15	
Andover Press, printing	23 00	
S. T. Shattuck & Son	11 00	
W. B. Hodgkins, police duty	4 00	
W. H. Coleman & Co., supplies	18 00	
Anderson & Bowman, supplies	65	
Thos. F. Daily, constable duty	10 00	
Percy J. Look, medical service	3 00	
W. C. Brown, police duty	17 50	
Auto List Pub. Co., auto lists	18 00	
	<hr/>	
Total Expended	4997 00	
Balance	45 00	
	<hr/>	
	\$5042 00	<hr/>
		\$5042 00

BOARD OF HEALTH

Appropriation, March 5, 1917

\$2000 00

Andover Press, printing	\$ 46 21
Charles H. Newton, inspector of meat	126 00
Lawrence Tuberculosis Hospital	268 59
Isaac Cuthill, quarantine	20 00
B. F. Haynes, board of health	50 00
Mass. Association, Board of Health	2 50
John Haggerty, labor	14 50
Hobbs & Warren, printing	50
A. M. Colby, sign	1 50
Wright's Andover Express	4 55
Allen F. Abbott, labor	75
Knipe Brothers, inspect plumbing	50 00
Mrs. Alex Smith, labor at Hunt home	12 00
Andover Pub. Health Asso., visiting nurse	6 00
Lucy B. Abbott, expenses at Hunt place	3 19
T. F. Morrissey & Son, auto hire	3 00
W. H. Coleman & Son, auto hire	8 50
J. H. Sparks, ambulance auto	12 00
City of Lawrence	131 44
Philip L. Hardy, lime	2 25
Charles H. Newton, animal inspection	156 25
Charles H. Newton, use of team	93 75
B. T. Haynes, carfare and expenses	2 05

Amount carried forward

\$1015 53

Appropriation		\$2000 00
<i>Amount brought forward</i>	\$1015 53	
Franklin H. Stacey, member Bd. of Health	50 00	
Franklin H. Stacey, milk inspector	75 00	
Franklin H. Stacey	38 46	
Franklin H. Stacey	32 32	
Charles E. Abbott, Sec. Bd. of Health	75 00	
Charles E. Abbott, fumigating, etc.	99 50	
Joseph P. Nolan, inspecting plumbing	108 00	
	<hr/>	
Total Expenditures	\$1493 81	
Balance	506 19	
	<hr/>	
	\$2000 00	\$2000 00

PRINTING AND STATIONERY

Appropriation, March 5, 1917		\$1200 00
Burroughs Adding Machine Co.	8 00	
Andover Press	982 49	
Canton Publishing Co.	1 25	
Wright & Potter Publishing Co.	10 50	
Hobbs & Warren	15 04	
P. B. Murphy	3 75	
Library Bureau	1 00	
E. P. Sellars	10 00	
Carter Ink Co.	1 25	
Adams Cushing & Foster, cash book	12 75	
John H. McDonald	119 52	
Henry M. Musk Publishing Co.	2 57	
The Birmingham Pen Co.	5 75	
Wakefield Daily Item	75	
Robert K. Slaughter Co.	20 00	
	<hr/>	
Total expenditures	1194 62	
Balance	5 38	
	<hr/>	
	\$1200 00	<hr/> \$1200 00

SUPPRESSION OF BROWNTAIL AND GYPSY MOTHS

Appropriation, March 5, 1917	\$3250 00
State Highway Commission	35 63
Sale of supplies	69 65
Private work	2594 29

\$5949 57

S. T. Shattuck & Son, labor and serving sprayer	\$ 425 10
American Express Co.	2 07
Ira Buxton, supplies	3 30
Walter I. Morse, supplies	91 89
Clinton Wire Cloth Co., supplies	35 91
Tyer Rubber Co., supplies	1 00
The Grasselli Chemical Co., arsenate lead	61 00
C. A. Hill & Co., supplies	3 90
A. M. Colby, supplies	75
W. H. Coleman & Co., supplies	63 02
Anderson & Bowman, repairs	49 36
W. M. Farwell	41 56
Buchan & McNally, supplies	5 36
Boston Coupling Co., supplies	2 25
Edward Berry, labor	746 94
J. Ingalls, labor	51 87
Leonard York, labor	193 88
J. Brookins, labor	177 40
E. Baker, labor	566 28
T. McDonald, labor	213 18
Albert Jones, labor	403 91
J. Fallon, labor	16 88

Amount carried forward

\$3156 81

Appropriation and Receipts	\$5949 57
<i>Amount brought forward</i>	\$3156 81
H. Murphy, labor	308 13
E. Tasser, labor	496 54
William Hatch, labor	151 87
Pat Tucker, labor	192 37
Chester Harnden, labor	416 76
C. Shattuck, labor	73 80
Austin Riley, labor	40 96
A. Wickey, labor	40 37
J. Bagley, labor	32 81
C. Knight, labor	46 60
F. Davis, labor	5 00
T. Haggerty, labor	5 00
S. Cady, labor	30 94
A. Cady, labor	3 10
Paul Cheney, labor	43 66
Martin Doherty, labor	71 84
Nathaniel Shattuck, labor	25 44
William Smith, labor	19 25
J. Shevlin, labor	29 57
Freeman Abbott, hauling sprayer	248 25
Charles Shattuck, labor	8 61
Michael Shea, labor	24 00
Henry Shorten, labor	17 50
H. Jones, labor	20 25
J. H. Playdon, labor	210 00
R. Greenwood, labor	18 00
P. Murfield, labor	3 75
F. Riordan, labor	3 75
R. Wright, labor	6 75
J. Williams, labor	3 75
Jerry Golden, labor	37 50
J. H. Playdon, use of horse	58 00
Richard Major, labor	11 50
<i>Amount carried forward</i>	\$5862 43

Appropriation and Receipts		\$5949 57
<i>Amount brought forward</i>	\$5862 43	
E. Murphy	18 00	
Mass. Forestry Department, supplies	22 87	
	<hr/>	
Total expenditures	\$5903 30	
Balance	46 27	
	<hr/>	
	\$5949 57	<hr/> \$5949 57

TREE WARDEN

Appropriation		\$250 00	
Sale of wood		551 25	
			<hr/>
			\$801 25
Edward Berry, labor	\$ 62 82		
E. Tasser, labor	61 13		
A. Jones, labor	13 88		
E. Baker, labor	67 86		
E. Murphy, labor	36 75		
Michael Shea, labor	18 00		
J. E. Pitman, lumber	44		
M. T. Walsh, repairs	36		
Follansbee Nursery, trees	45 00		
Carl Rogers, cutting wood	241 90		
Jos. Svigney, cutting wood	123 39		
	<hr/>		
Total Expenditure	671 53		
Balance	129 72		
	<hr/>		
	\$801 25	\$801 25	

SPRING GROVE CEMETERY

Appropriation, March 5, 1197	\$2500 00
Interest from perpetual care deposits	163 00
Yearly care of lots	271 50
Sale of lots	257 00
Interments	208 00
Building foundations	91 48
Sale of lumber	20 00
Sale of wood	34 50
Grading, etc. on lots	65 56
	<hr/> \$3611 04
Joseph F. Cole, new work east side cemetery	\$1493 98
Installing water supply	300 77
J. W. Richardson, lumber	51 12
J. E. Pitman, lattice	4 32
Andover Press, printing etc.	17 75
S. T. Shattuck, teaming	25 00
F. E. Dodge, lime and cement	28 15
American Stationery Co., card cases	9 00
Buchan & McNally, pipe fittings	4 00
Board of Public Works, water	2 54
A. M. Colby, repairing cover	1 25
Anderson & Bowman, drills	5 35
Joseph Stanley, sods	6 65
George Seymour, dynamite	6 12
T. A. Holt Co., fertilizer	1 85
George Millett, shrubs	40 48
W. I. Morse, tools and hardware	95 22
A. Remmes, hand-cart	10 00
	<hr/>
<i>Amount carried forward</i>	\$2103 55

Appropriation and Receipts		\$3611 04
<i>Amount brought forward</i>	\$2103 55	
E. F. Conkey, repairing fence	6 00	
Smith & Manning, fertilizer	18 48	
Postage	11 16	
Joseph F. Cole, pay roll	79 78	
Fred F. Wiss, superintendent	828 00	
Charles E. Shorten, labor	229 98	
Herbert W. Ford, labor	2 75	
C. L. Wilson, labor	16 73	
Charles J. Shorten, labor	195 23	
William Quinn, labor	24 32	
James Waldie, labor	2 75	
A. J. Lundgren, labor	82 15	
	<hr/>	
Total expenditure	\$3600 88	
Unexpended balance	10 16	
	<hr/>	
	\$3611 04	<hr/> \$3611 04

INSURANCE

Appropriation, March 5, 1917		\$3500 00
Smart & Flagg	\$3390 68	
	<hr/>	
Total expenditure	\$3390 68	
Balance	109 32	
	<hr/>	<hr/>
	\$3500 00	\$3500 00

HAY SCALES

Appropriation, March 5, 1917		\$125 00
Ira Buxton	\$ 33 33	
W. C. Brown	66 67	
	<hr/>	
Total expenditure	100 00	
Balance	25 00	
	<hr/>	<hr/>
	\$125 00	\$125 00

STREET LIGHTING

Appropriation, March 5, 1917		\$6500 00
Lawrence Gas Co.	\$6187 24	
	<hr/>	
Total expenditure	6187 24	
Balance	312 76	
	<hr/>	
	\$6500 00	\$6500 00

MEMORIAL DAY

Appropriation, March 5, 1917		\$350 00
Moses L. Farnham, Quartermaster	\$350 00	
	<hr/>	
Total expenditure	\$350 00	\$350 00

MEMORIAL HALL LIBRARY

Appropriation, March 5, 1917		\$1800 00
F. S. Boutwell, Treasurer Memorial Hall Library	\$1800 00	
Total expenditure	\$1800 00	\$1800 00

POST 99, G. A. R.

Appropriation, March 5, 1917		\$100 00
Moses L. Farnham, Quartermaster	\$100 00	
Total expenditure	\$100 00	\$100 00

SEWER SINKING FUND

Appropriation, March 5, 1917		\$1000 00
Dec. 18, W. B. Hodgkins, Treasurer Sinking Fund	\$1000 00	
Total expenditure	\$1000 00	\$1000 00

WATER SINKING FUND

Appropriation, March 5, 1917		\$750 00
Dec. 18, W. B. Hodgkins, Treasurer Sinking Fund	\$750 00	
Total expenditure	\$750 00	\$750 00

STATE TAX AND HIGHWAY TAX

Andover's proportion of State and Highway Tax		\$24535 00
Charles L. Burrill, Treas. and Receiver General	\$24535 00	
Total expenditure	\$24535 00	\$24535 00

COUNTY TAX

Andover's proportion of County Tax		\$15632 36
Nov. 1, David I. Robinson, County Treasurer	\$15632 36	
Total expenditure	\$15632 36	\$15632 36

DOG TAX

Received from County Treasurer		\$625 64
Nov. 23, paid F. S. Boutwell, Treasurer Memorial hall	\$625 64	
Total expenditure	\$625 64	\$625 64

NOTES GIVEN

Mar. 16, Andover National Bank, Note No. 39 due Nov. 10, Rate 3.88	\$25000 00
Mar. 16, Andover National Bank, Note No. 40 due Nov. 17, Rate 3.88	25000 00
Mar. 16, Andover National Bank, Note No. 41, due Dec. 1, Rate 3.88	10000 00
Mar. 16, Andover National Bank, Note No. 42, due Dec. 8, Rate 3.88	10000 00
Mar. 16, Andover National Bank, Note No. 43, due Dec. 15, Rate 3.88	10000 00
Total notes issued	<hr/> \$80000 00

NOTES PAID

Nov. 10, Andover National Bank, Note No. 39	\$25000 00
Nov. 20, Andover National Bank, Note No. 40	25000 00
Dec. Andover National Bank, Note No. 41	10000 00
Dec. Andover National Bank, Note No. 42	10000 00
Dec. Andover National Bank, Note No. 43	10000 00
Total notes paid	<hr/> \$80000 00

INTEREST

Appropriation, March 5, 1917		\$17000 00
Interest on deposits in National Bank		1009 28
		<hr/>
		\$18009 28
Jan.	23, Geo. A. Higgins, Treas., paid 2 Water coupons	\$ 40 00
Feb.	2, Old Colony Trust Co., 15 Water coupons	300 00
Mar.	15, Bureau of Statistics, Com. of Mass. Notes, 39 to 43 inclusive	10 00
Mar.	15, Andover National Bank, Int. on Notes 39 to 43 inclusive	2187 33
Mar.	21, Geo. A. Higgins, Treas., paid 1 Water coupon	17 50
Mar.	21, Geo. A. Higgins, Treas., paid 1 Sewer coupon	20 00
Mar.	22, Old Colony Trust Co., 10 Sewer coupons	200 00
Mar.	22, Old Colony Trust Co. 100 High School coupons,	2000 00
Mar.	22, Old Colony Trust Co., 24 Water coupons	480 00
April	9, Geo. A. Higgins, Treas., paid 16 Water coupons	280 00
April	24, Old Colony Trust Co., 8 Water coupons	160 00
April	24, Old Colony Trust Co., 20 Andover Loan Act.	400 00
May	21, Geo. A. Higgins, Treas., paid	
<i>Amount carried forward</i>		<hr/> \$6094 83

Appropriation and Receipts		\$18009 28
<i>Amount brought forward</i>		\$6094 83
	17 Water coupons	340 00
June	1, Geo. A. Higgins, Treas., paid	
	34 Water coupons at 17½	595 00
June	1, Geo. A. Higgins, Treas., paid	
	11 Water coupons at 20	220 00
June	1, Geo. A. Higgins, Treas., paid	
	2 Sewer coupons	40 00
June	4, Geo. A. Higgins, Treas., paid	
	23 Water coupons	460 00
June	14, Geo. A. Higgins, Treas., paid	
	10 Water coupons	200 00
June	14, Geo. A. Higgins, Treas., paid	
	27 Sewer coupons	540 00
June	27, Old Colony Trust Co., 10	
	Water coupons	200 00
June	27, Old Colony Trust Co., 70	
	Sewer coupons	1400 00
July	25, Geo. A. Higgins, Treas., paid	
	3 Water coupons	60 00
Aug.	29, Old Colony Trust Co., 15	
	Water coupons	300 00
Sept.	7, Geo. A. Higgins, Treas., paid	
	1 Water coupon	20 00
Sept.	27, Old Colony Trust Co., 100	
	High School coupons	2000 00
Sept.	27, Old Colony Trust Co., 23	
	Water coupons	460 00
Sept.	27, Old Colony Trust Co., 10	
	Sewer coupons	200 00
Oct.	23, Geo. A. Higgins, Treas., paid	
	15 Water coupons at 17.50	262 50
Oct.	26, Old Colony Trust Co., 20	
	Andover Loan	400 00
<i>Amount carried forward</i>		<hr/> \$13792 33

Appropriation and Receipts		\$18009 82
<i>Amount brought forward</i>		\$13792 33
Oct.	26, Old Colony Trust Co., 7 Water coupons	140 00
Nov.	6, Geo. A. Higgins, Treas., paid 10 Water coupons	200 00
Nov.	20, Geo. A. Higgins, Treas., paid 15 Water coupons	300 00
Dec.	5, Geo. A. Higgins, Treas., paid 32 Water coupons at 17.50	560 00
Dec.	5, Geo. A. Higgins, Treas., paid 66 Water coupons	520 00
Dec.	5, Geo. A. Higgins, Treas., paid 13 Sewer coupons	260 00
Dec.	11, Geo. A. Higgins, Treas., paid 7 Sewer coupons	140 00
Dec.	11, Geo. A. Higgins, Treas., paid 2 Water coupons	40 00
Dec.	19, Geo. A. Higgins, Treas., paid 8 Sewer coupons	160 00
Dec.	20, Old Colony Trust Co., 65 Sewer coupons	1300 00
1918	Old Colony Trust Co., 8 Water coupons	160 00
Jan.	2, Geo. A. Higgins, Treas., paid 1 Sewer coupon	20 00
Total expenditure		\$17592 33
Balance		416 95
		<hr/>
		\$18009 28 \$18009 82

REDEMPTION OF BONDS

Appropriation, March 5, 1917,

Water	\$12949 22
Punchard School	2861 89
Andover Loan Act	5000 00
Interest and premium on A. H. S. L.	2131 11
Water Bond Premium	50 78
Sewer Bond Premium and Assessments	5000 00

\$28000 00

Mar.	22, Old Colony Trust Co., Water Bond, No. 287	\$1000 00
April	9, Geo. A. Higgins, Treas., paid Water bonds, No. 216	1000 00
April	24, Old Colony Trust Co., Water bond, No.	1000 00
June	1, Geo. A. Higgins, Treas., paid 1 Water bonds, 239-249	2000 00
June	27, Old Colony Trust Co., 2 Water bonds, 341-342	2000 00
June	27, Old Colony Trust Co., 5 Sewer bonds, 146-150 inc.	5000 00
Aug.	29, Old Colony Trust Co., 1 Water bond, No. 316	1000 00
Sept.	27, Old Colony Trust Co., 5 Andover High School bonds	5000 00
Oct.	26, Old Colony Trust Co., 5 Andover Loan Act bonds	5000 00
Nov.	6, Geo. A. Higgins, Treas., paid Water bonds, 136-140 inc.	5000 00

Total	\$28000 00	\$28000 00
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RETIREMENT OF VETERANS

Appropriation, March 5, 1917, Acts 1912		\$300 00
James Saunders	\$300 00	
	<hr/>	<hr/>
Total expenditure	\$300 00	\$300 00

PUBLIC DUMP

Appropriation, March 5, 1917		\$75 00
Olof Benson	\$75 00	
	<hr/>	<hr/>
Total expenditure	\$75 00	\$75 00

MISCELLANEOUS

Appropriation, March 5, 1917		\$2000 00
New England Tel. & Tel. Co.	\$ 11 21	
American Express Co.	1 39	
Myerscough & Buchan	16 00	
Bradley & Dooley, decree for Wm. Boland	668 62	
Benjamin Jaques	5 50	
J. A. Ryley	26 65	
Patrick J. Barrett	3 00	
James S. May	3 00	
F. A. Buttrick	41 25	
T. F. Morrissey & Son	34 50	
Andover National Bank	5 00	
Commonwealth of Massachusetts	75	
Mary E. Faulkner, settlement of claims	350 00	
Carfare and expenses of selectmen attending hearings, etc.	32 30	
Lilla D. Stott, returns of transfer of real estate and probate returns	43 02	
Ira B. Hill, extra field driver	6 00	
Lawrence Awning and Decoration Co., decorating town hall	10 00	
W. & L. E. Gurley, repairs on scales	8 69	
W. H. Coleman & Co.	4 00	
Thomas F. Dailey	5 00	
Madeleine Hughes, copying records	53 38	
Percy J. Look, M.D., return of births	5 50	
E. D. Lane, M.D., return of births	6 00	
<i>Amount carried forward</i>	\$1340 76	

Appropriation		\$2000 00
<i>Amount brought forward</i>	\$1340 76	
W. D. Walker, M.D., return of births	8 00	
C. E. Abbott, M.D., return of births	1 00	
T. J. Cullinane, M.D., return of births	25	
E. C. Conroy, M.D., return of births	75	
J. J. Daly, M.D., return of births	5 50	
M. J. Mahoney, return of deaths	4 25	
E. M. Lundgren, return of deaths	20 50	
Geo. A. Higgins, sundry expenses	9 80	
B. & M. R. R., R. R. tickets	27 50	
W. F. Gledhill, fish warden	10 00	
Banker & Tradesman, paper	5 00	
	<hr/>	
Total expenditure	\$1433 31	
Balance	566 69	
	<hr/>	
	\$2000 00	<hr/>
		\$2000 00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1917:—

During the year past, but little occurred outside the usual routine.

A part of the farm land was utilized by the Committee on Public Safety to provide gardens for those who desired to cultivate them, Superintendent Swanton aiding those who were not familiar with the raising of vegetables; but the results achieved, not only from these plots, but also from the rest of the farm were far from satisfactory, owing to the peculiar season.

When the fire was started in the heating plant, several of the tubes in the boiler were in such a condition, that it was necessary to replace five, and during the present year the boiler will probably have to be entirely re-tubed. Other than this, with the usual painting and whitewashing, no repairs seem necessary.

The personnel of our inmates remains about the same as last year, those of advanced years and weakened systems. We can but feel that they are indeed fortunate in having such pleasant surroundings, with those who take pleasure in administering to their comfort and happiness.

For Almshouse expense we would ask that the sum of \$4500.00 be appropriated, for repairs (re-tubing boiler), \$400.00; to meet the requirements of Chap. 763, Acts of 1913, an act for suitably aiding mothers with dependent children, the sum of \$500.00.

HARRY M. EAMES

WALTER S. DONALD

CHARLES BOWMAN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 5, 1917		\$4500 00
Receipts from town farm		1087 60
		<hr/> 5587 60
Lawrence Gas Co.	\$ 159 37	
Frank L. Cole, clothing	33 70	
S. K. Ames, supplies	39 37	
H. Bruckman, grain	275 43	
J. H. Campion & Co., groceries	95 27	
Frank L. Holt, labor	16 20	
F. C. Small Co., groceries	119 48	
Hiller & Co., supplies	27 73	
Robert Hutcheson, fish	66 11	
D. F. Chase, provisions	219 58	
Reid & Hughes, dry goods	169 65	
T. A. Holt Co., groceries	662 03	
Smith & Manning, groceries	139 86	
Lindsay & Young, provisions	179 38	
Walter I. Morse, hardware	38 08	
Henry Barnard, supplies	4 25	
Peter Henderson & Co., supplies	13 80	
Robertson & Sutherland Co., dry goods	29 42	
Crowley & Co., drugs	12 75	
W. A. Nelson, supplies	37 95	
Frank H. Hardy, supplies	28 40	
Charles Robinovitz, shoes and repairing	12 35	
H. F. Tripp, supplies	3 69	
George Brown, shoes and repairing	17 50	
Anderson & Bowman, blacksmith work	45 55	
Buchan & Francis, supplies	58 87	
O. P. Chase, supplies	9 50	
Andover Committee on Public Safety, seed	6 30	
	<hr/>	
<i>Amount carried forward</i>	\$2521 57	

Appropriation and Receipts		\$5587 60
<i>Amount brought forward</i>	\$2521 57	
Daniel Barberian labor	10 00	
Frank E. Whiting, supplies	2 65	
C. A. Hill Co., washing machine and supplies	193 72	
Standard Oil Co., supplies	2 75	
George D. Ward, labor	36 12	
Chester D. Abbott, supplies	3 50	
Andover Board of Public Works, water	54 23	
F. M. Downs, labor	3 00	
Providence Churning Co., supplies	54 00	
Armour & Co., supplies	15 60	
Albert W. Lowe, drugs	30 15	
T. F. Morrissey & Son, straw	13 68	
R. H. Sugatt, clothing	3 00	
A. M. Colby, supplies	4 25	
Hugh Kydd, labor	38 00	
Buchan & McNally, supplies	1 75	
New England Tel. & Tel. Co.	50	
Family Shoe Store, supplies	60	
Hiland F. Holt, dentistry	1 50	
Tyer Rubber Co., supplies	1 09	
A. S. Manning, groceries	42 94	
Andover Coal Co., coal	292 50	
Walter C. Boyce, pasturing heifers	22 50	
Elmer F. Conkey, labor	6 00	
Beach Soap Co., supplies	16 06	
Andrew Basso, supplies	8 34	
G. L. Averill, fertilizer	8 75	
M. B. McTernen, dentistry	1 00	
Smith & Dove Co., burlap	96	
Peoples' Ice Co., ice	65 00	
Joseph Stanley, labor	9 00	
John A. Collins, labor	75 00	
<i>Amount carried forward</i>	\$3539 71	

Appropriation and Receipts		\$5587 60
<i>Amount brought forward</i>	\$3539 71	
Tree Warden, wood	120 00	
Fred A. Swanton, superintendent	800 00	
Lawrence Sanburn, labor	68 00	
D. J. C. Sharp, labor	30 00	
Alice F. Kimball, labor	78 00	
W. C. Boyce, labor	10 50	
Mark A. Wadlin, labor	12 50	
Annie Keenan, labor	44 00	
Annie W. Swanton, labor	83 33	
Isabel Sinclair, labor	307 00	
Bertha Jansson, labor	288 00	
	<hr/>	
Total expenditure	\$5381 04	
Balance	206 56	
	<hr/>	
	\$5587 60	\$5587 60

ALMSHOUSE REPAIRS

Appropriation, March 5, 1917		\$250 00
Edward Ward, labor	\$ 4 50	
Lawrence Lumber Co., supplies	14 00	
George D. Ward, labor	45 00	
Buchan & McNally, supplies	47 15	
Merrimack Boiler Co., supplies	85 90	
Ira Buxton, labor	7 00	
Gray & Kendall, labor	2 75	
Frank E. Dodge, labor and supplies	10 20	
C. I. Alexander & Sons, labor and supplies	17 00	
	<hr/>	
Total expenditure	\$233 50	
Balance	16 50	
	<hr/>	
	\$250 00	\$250 00

SOLDIERS' RELIEF

Appropriation, March 5, 1917		\$900 00
Total expenditure	\$1039 25	
Overdrawn		139 25
	<hr/>	<hr/>
	\$1039 25	\$1039 25

STATE AID

Appropriation, March 5, 1917		\$1300 00
Total expenditure	\$1230 00	
Balance	70 00	
	<hr/>	<hr/>
	\$1300 00	\$1300 00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 5, 1917		\$500 00
Town cases	\$564 00	
On account other cities	217 00	
On account of State	172 50	
	<hr/>	
Total expenditure	\$953 50	
Due from other cities and towns	\$144 67	
Due from state	328 16	472 83
	<hr/>	<hr/>
Net expenditure		480 67
Balance		19 33
		<hr/>
		\$500 00
		\$500 00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 5, 1917		\$4300 00	
Paid out of Almshouse	\$3696 36		
Paid other cities and towns	253 84		
Paid State	134 16		
Paid on account other cities and towns	43 25		
Paid on account State	119 70		
Total expenditure	\$4247 31		
Due from other cities and towns	\$43 25		
Due town from State	119 70		
		162 95	
Net expenditure	\$4084 36		
Balance	215 64		
		\$4300 00	\$4300 00

PERSONAL PROPERTY AT ALMSHOUSE

House furniture	\$1300 00	
Clothing	400 00	
Farm stock	1000 00	
Farm tools	350 00	
Farm produce	499 00	
Fuel	550 00	
Provisions	175 00	
		\$4274 00

ALMSHOUSE SUPERINTENDENT'S REPORT

Number of inmates in the almshouse, January 1, 1917	14
Number admitted during the year	6
Number discharged during the year	4
Number died during the year	2
Number sent to Tewksbury	1
Number in almshouse, January 1, 1918	13
Over eighty years of age	5
Between seventy and eighty	2
Between sixty and seventy	4
Between fifty and sixty	1
Under fifty	1

FARM CASH REPORT

Received for		
Cows and boarding cows	\$ 526 00	
Service of bull	2 00	
Milk	54 78	
Calves	8 00	
Pigs	179 00	
Eggs	135 85	
Chickens	4 00	
Vegetables	41 25	
Old iron	1 40	
Old wheelbarrow	3 00	
On hay bill of 1916	3 00	
Use of cart	6 75	
Boarding Miss Buckley	104 00	
Boarding Thomas Bentley	96 00	
Charles Smith Estate	172 57	
	<hr style="width: 100%; border: 0.5px solid black;"/>	\$1337 60

Paid for		
Cows	250 00	
Cash to balance	1087 60	
	<hr/>	<hr/>
	\$1337 60	\$1337 60

FRED A. SWANTON, *Superintendent*

ASSESSORS' REPORT

We herewith submit our annual report.

Number of male polls assessed		2162
Personal estate	\$1588660 00	
Real estate	6228600 00	
	<hr/>	\$7817260 00
Poll tax	\$ 4324 00	
Tax on personal property	32569 26	
Tax on real estate	127688 73	
	<hr/>	\$ 164581 99
Rate of taxation per \$1000	\$20 50	
Number of		
Horses assessed		546
Cows assessed		1027
Cattle other than cows assessed		239
Sheep assessed		28
Swine assessed		249
Fowl assessed		14005
Dwellings assessed		1612
Acres of land assessed		17936

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Assessors of Andover

BOARD OF HEALTH

We do hereby submit our annual report for the year ending December 31, 1917.

This year showed a large increase in the number of contagious diseases reported to the Board, there being a total of 328, compared with 164 in 1916. This increase was due mostly to epidemics of chickenpox, german measles, and mumps. This does not necessarily mean that there was an increase in the number of cases in the town but that there were more reported this year.

Without doubt the work of the school nurses was one of the principal reasons as they reported a total of 79 cases, mostly of a mild form where the child was not ill enough to need the services of a physician.

The following is a classified list compared with 1916:

	1916	1917
Chickenpox	5	60
Diphtheria	12	12
German Measles	2	82
Ophthalmia	1	
Infantile Paralysis	2	
Measles	9	61
Mumps	34	83
Scarlet Fever	5	12
Tuberculosis	12	9
Typhoid Fever	6	5
Whooping-cough	74	3
Spinal Meningitis	2	
Lobar Pneumonia	(not reportable)	1

There were twenty deaths during 1917 from communicable diseases, compared with thirteen for 1916. Lobar pneumonia caused seven deaths, tuberculosis twelve, and diphtheria one. Lobar pneumonia was added to the list of reportable diseases this year by the State Department of Health.

Owing to the unsanitary conditions of the properties on the easterly side of Baker's Lane, due mostly to the presence of

outside earth vaults, we have condemned the same; the owners were notified that their premises constituted a public nuisance and were a menace to health. We were unfortunate in regard to the cold weather which set in so early and has continued to date, whereby it was impossible to remedy the conditions; but this will be attended to as soon as the mild weather comes, or else the premises must be vacated.

In cooperation with the State Department of Health, the present quarters of the Police Department in the Town House were viewed and the same condemned as being unfit for the purpose for which they were used.

Many sewer connections were made this year under orders of the Board, and we expect that the few remaining will be connected as soon as the weather permits. In some cases it has been necessary to take up the matter through the town counsel.

Owing to the present conditions in regard to food supplies, we have waived, in many cases, the restrictions relating to the keeping of swine, etc., provided it is agreed to keep the premises in a sanitary condition.

Early in the fall we received a petition signed by many property owners and residents of Ballardvale regarding the Lyster Chemical Company. We viewed the premises, and called on the town counsel for advice. He informed us that it would be a very difficult matter for any local board of health to adjust in view of the many legal complications; he also stated that the most practical solution would be through civil suits instituted by the owners of the property involved.

Later a hearing was held in regard to the matter. Dr. Simpson of the State Board of Health was present and took the question under advisement, so that it is now resting with the State Department of Health.

The fumes of sulphureted hydrogen from the Beaver Chemical Company have been the cause of many complaints, and unfortunately this also comes under the same ruling, that while it may constitute a nuisance, and be a damage to property, a local Board of Health would have to prove that it was an "actual or absolute danger to flesh and blood".

Owing to better service given by the Postoffice Department, whereby diphtheria cultures could be sent in any first-class pouch including "catcher pouches", we discontinued having our diagnosis cultures done by a Lawrence bacteriologist and feel that the results have been equally as good.

The appointments of the Board were: Mr. George A. Higgins to act as clerk in the matter of registration of births and deaths. Mr. Charles H. Newton was nominated Inspector of Slaughtering and this nomination was approved by the State Department of Health.

Miss Emily Sprague was appointed special agent for the Board to act in certain cases.

The expenditures for the year follow:—

Appropriation March 5, 1917		\$2000 00
Wm. Knipe, Asst. Plumbing Inspector	\$ 50 00	
Chas. H. Newton, Animal Inspector	250 00	
Chas. H. Newton, Inspector Slaughtering	126 00	
Franklin H. Stacey, Inspector Milk	75 00	
Membership Massachusetts Association		
Boards of Health	2 50	
Joseph P. Nolan, Inspector Plumbing	108 00	
Andover Press	46 21	
Dr. Chas. E. Abbott, Sec., salary	75 00	
Bancroft T. Haynes, salary	50 00	
Franklin H. Stacey, salary	50 00	
John Haggerty, labor	14 50	
A. M. Colby, sign	1 50	
Allen F. Abbott, labor	75	
Hobbs & Warren, blanks	50	
Burying dead animals	3 05	
Transportation	16 70	
Telephone tolls	2 62	
Tel. Lawrence, service and listing	30 00	
Postage	2 89	
Supplies	1 25	
		906 47

CONTAGIOUS DISEASES

Lawrence Tuberculosis Hospital	400 03	
Quarantine	20 00	
Mrs. Alex. Smith	12 00	
Andover Public Health Association	6 00	
Miss Lucy B. Abbott	3 19	
T. F. Morrissey & Son	3 00	
W. H. Coleman	8 50	
Dr. Sparks, ambulance	12 00	
Philip Hardy, lime	2 25	
Wright's Express	4 55	
Fumigation	83 50	
Telephone tolls	5 52	
Fumigators	21 55	
Transportation	3 00	
Supplies, miscellaneous	2 25	
	<hr/>	
	587 34	
Total expenditure		1493 81
		<hr/>
Balance		506 19

Respectfully submitted,

FRANKLIN H. STACEY, PH.C.
BANCROFT T. HAYNES
CHARLES E. ABBOTT, M. D.

FIRE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen:

DEAR SIRs:—I hereby submit the following report of the Fire Department for the year ending 1917.

The Department has the same equipment as last year, consisting of one combination pump, chemical and hose, one combination chemical and hose, one fourth-class steam fire engine, two horse-drawn hose wagons, one horse-drawn ladder truck, one supply wagon, one pung and four horses.

The working force is as follows: 3 engineers, 5 permanent men and 26 call men.

We have responded to 37 alarms for grass or brush fires, 6 automobile fires, 35 house fires, 2 false alarms and 2 out of town calls, one to Lawrence, one to Tewksbury.

We have laid 10,597 feet of hose, raised 587 feet of ladders and used 1175 gallons of chemicals.

Combination No. 1 has travelled 212½ miles.

Combination No. 2 has travelled 91 4-10 miles.

Value of buildings and contents where fires have occurred	
	\$310,750 00

Insurance on buildings and contents where fires have occurred	
	\$250,350 00

Loss on buildings and contents where fires have occurred	
	\$2,620 00

One new fire alarm box No. 542 has been installed on No. Main Street, between Rubber Shop and Railroad bridge.

The battery elements have been renewed and are in good shape; new wires have been hung in several places where the removal of poles has made it necessary.

The Board of Engineers recommend the appropriation of \$9,400.00 for running expenses, new hose and repairs and additions that are deemed necessary.

Respectfully submitted

CHARLES S. BUCHAN

Chief Engineer

POLICE DEPARTMENT

CHIEF'S REPORT

To the Board of Selectmen:—

GENTLEMEN: I herewith submit the report of the Police Department for the year ending December 31, 1917.

Whole number of arrests Males 154 Females 2 Total 156

OFFENCES FOR WHICH ARRESTS WERE MADE

Non-support	2
Abuse of wife	2
Larceny	9
Violation of Automobile Law	14
Bastardy	1
Drunk	30
Common drunk	11
Assault	9
Delinquency	12
Cafe-keeping	2
Malicious mischief	6
Evading fares	1
Vagrancy	4
Disturbance	16
nsane	6
Peddling without license	3
Violation of town ordnance	8
Threat to destroy building	1
Cruelty to animals	4
Trespass	6
Stubborn child	1
Out-of-town officers	6
Having no card of registration	2

DISPOSITION OF CASES

Appealed	2
Continued	16
Committed to State Farm	2
Committed to House of Correction	7
Committed to insane asylum	6
Discharged	29
Held for Grand Jury	1
Held for out-of-town officers	6
Paid fines	42
On probation	32
On file	10
Committed to Tewksbury	3

MISCELLANEOUS

Fines paid in lower court	240 00
Burglaries reported	5
Doors found open and secured	47
Dogs killed	42
Value of property stolen	\$1000 00
Value of property recovered	600 00
Value of police equipment	400 00

SUPERIOR COURT FINDINGS

Eight months sentence	1
On probation	2
No bill found	2

Respectfully submitted

FRANK M. SMITH

Chief of Police

SPRING GROVE CEMETERY

John L. Smith died March 14, 1917.

Your trustees are again called upon to record the loss of another of their oldest and most valued members. Mr. John L. Smith was chosen by the town in 1893 as one of the Cemetery Trustees, and for twenty-four years has given freely of his experience and time toward the development of the cemetery. For many years he has served as chairman of the Board of Trustees, and his constant interest and faithful counsel has been of the greatest assistance to his associates on the Board.

At the annual meeting in March, an additional appropriation of \$1500 was granted the trustees for the purpose of extending the cemetery lay-out on the east side of the Old Railroad Bed. This work was carried forward to the extent of the appropriation and has in large measure opened up a tract sufficient for the requirements of the town for several years. It will require, however, considerable work at surfacing and plotting this tract of land to make it immediately available for sale, and we therefore ask for this purpose an appropriation of \$1500, in addition to the regular appropriation of \$1000 and the proceeds from the sale of lots and other receipts for work done in the cemetery.

FELIX G. HAYNES

WALTER I. MORSE

GEORGE D. MILLETT

DANIEL H. POOR

WARREN L. JOHNSON

JOHN W. BELL

Cemetery Trustees

December 31, 1917

SPRING GROVE CEMETERY STATISTICS

Lots sold as per last report	459
Lots sold in 1917	7
	<hr/>
Total lots sold	466
Total number of single graves sold	174
Interments as per last report	1276
Interments in 1917	50
	<hr/>
Total interments	1326

J. W. BELL

Clerk of Board of Trustees

December 31, 1917

TREE WARDEN'S REPORT

We are still following out the custom of planting a few trees each year in the districts where needed, but most of the work done by this department was in trimming up the shade tree in the residential part of the town and in the outlying districts, as in a great many places it was almost impossible for covered carriages to pass. We have tried to remedy this by removing some of the lower branches which all will agree has helped the situation, and as this work should be carried further along these lines, I ask that the sum of \$250 be appropriated for this department.

Respectfully,

J. H. PLAYDON

Tree Warden

REPORT OF MOTHS SUPERINTENDENT

In submitting my report of this Department, I desire to call your attention to the fact that owing to war conditions the cost of material as well as labor has greatly increased and we are obliged to ask the co-operation of every property owner to do his part in suppressing the moth pest.

The past two years have been very unsatisfactory for spraying owing to the wet season, and in some places the gypsy moth has increased while the browntail moth has entirely disappeared. The situation looks more hopeful and if weather conditions are favorable this spring, we should see a marked decrease next fall. Roadside cutting has been done on several of the roads in the outlying districts and in order that this work may be continued, I would ask that the sum of \$3500 be appropriated for this department.

Respectfully,

J. H. PLAYDON

Local Superintendent

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen.

GENTLEMEN:— I hereby submit my report for the year beginning November 15, 1916, and ending November 15, 1917.

Number of cattle inspected	1191
Number of stables inspected	158
Number of cows condemned because affected with tuberculosis	22
Number of stables disinfected	21
Number of interstate cattle identified and released	52
Number of cases of glanders	1

Respectfully submitted,

CHARLES H. NEWTON

Inspector of Animals

SCHEDULE OF TOWN PROPERTY

Town House, fixtures and furniture	\$50000 00	
Engine house, storehouse and barn	25000 00	
25723 ft. land	20000 00	
	<hr/>	\$95000 00
Memorial Hall	30000 00	
22318 ft. land	10000 00	
	<hr/>	40000 00
Engine house, Ballardvale	6000 00	
New shed	200 00	
1-3 acre land	250 00	
	<hr/>	6450 00
Almshouse	16000 00	
Barn and other buildings	3800 00	
31 1-2 acres land	5000 00	
	<hr/>	24800 00
Punchard High School	94000 00	
4 acres land	8000 00	
	<hr/>	102000 00
Heating plant, Jackson schoolhouse	30000 00	
John Dove schoolhouse	25000 00	
Stowe schoolhouse	31000 00	
3 3-4 acres of land	6000 00	
	<hr/>	92000 00
Bradlee schoolhouse, Ballardvale	23000 00	
1 acre land	500 00	
	<hr/>	23500 00
Richardson schoolhouse	7000 00	
1-2 acre land	400 00	
	<hr/>	7400 00
	<hr/>	
<i>Amount carried forward</i>		\$391150 00

<i>Amount brought forward</i>		\$391150 00
Indian Ridge schoolhouse	\$17000 00	
1 acre land	800 00	
	<hr/>	17800 00
West Center schoolhouse	3500 00	
1-2 acre land	150 00	
	<hr/>	3650 00
North District schoolhouse	3500 00	
1-2 acre land	50 00	
	<hr/>	3550 00
Bailey District schoolhouse	2500 00	
1-2 acre land	50 00	
	<hr/>	2550 00
Osgood District schoolhouse	2000 00	
1-2 acre land	50 00	
	<hr/>	2050 00
Old Schoolhouse, Ballardvale	3000 00	
1-4 acre land	500 00	
	<hr/>	3500 00
9 acres, Indian Ridge (Gravel Pit)		3000 00
41 1-2 acres, Carmel Woods Reservation		3600 00
173,751 sq. ft. land, Central Park (Richardson Field)		15000 00
6 1-2 acres Playstead		5000 00
Bandstand		1000 00
Andover Board Public Works—		
Pipe-lines and fountains	248000 00	
Pumping-station and buildings	42500 00	
Coal shed	700 00	
3 acres land	800 00	
20 acres Boston Ice Co. land	2500 00	
2 reservoirs	16000 00	
4 1-2 acres land	2350 00	
Machinery and tools	1000 00	
Stone-breaker and engine	2000 00	
	<hr/>	
<i>Amount carried forward</i>	\$315850 00	451850 00

<i>Amount brought forward</i>	\$315850 00	451850 00
Steam road roller	1000 00	
Pump-house, east side N. Main St.	5000 00	
3 sleds	75 00	
1 auto	300 00	
3 horses	800 00	
Carts and harnesses	200 00	
Sewer system	253000 00	
Workshop, Lewis Street	1600 00	
Barn and shed, Lewis Street	3000 00	
47467 ft. land, Lewis Street	3000 00	
	<hr/>	583825 00
		<hr/>
		1035675 00
Punchard School Fund		76454 28
Memorial Hall, Permanent Fund	\$45000 00	
Memorial Hall Library, John Cornell Fund	7700 00	
Memorial Hall Library, John Byers Fund	10000 00	
Memorial Hall Library, Edward Taylor Fund	500 00	
Memorial Hall Library, Isaac E. Giddings Fund	3000 00	
Memorial Hall Library and furniture	10000 00	
Memorial Hall Library, Woman's Christian Temperance Union	100 00	
Memorial Hall Library, Phillips Fund	3200 00	
	<hr/>	79500 00
Personal Property at Town Farm		4274 00
Motor Combination Chemical Truck		5300 00
Motor Combination Pump and Truck		9000 00
One Steam Fire Engine and apparatus		2800 00
Hook and Ladder Truck		1000 00
Two hose wagons		1000 00
		<hr/>
<i>Amount carried forward</i>		\$1215003 28

<i>Amount brought forward</i>	\$1215003 28
Hose sled	60 00
Four horses	1000 00
Hay scales	350 00
Safes in Town House	800 00
41½ acres of land, Spring Grove Cem'y	\$7500 00
Receiving-tomb and tool-house	1500 00
	<hr/> 9000 00
Weights and measures	350 00
Fire Alarm apparatus	4500 00
4000 ft. hose	2000 00
	<hr/> \$1233063 28

REPORT OF TAX COLLECTOR

To the Board of Assessors:

I herewith hand you my report as Collector of Taxes for the year ending December 31, 1917.

1914

Amount as per warrant		\$2371 69
Added to warrant		62 68
Street sprinkling		21 56
Moth work		70 91
Interest		366 93
Collected taxes	\$1938 37	
Collected street sprinkling	21 56	
Collected moth work	70 91	
Collected interest	366 93	
Abated	491 60	
Error in warrant	4 40	
	\$2893 77	\$2893 77

1915

Amount as per warrant		\$ 10377 74
Added to warrant		19 50
Street sprinkling		36 90
Moth work		40 30
Interest		626 66
Collected taxes	\$ 6625 46	
Collected street sprinkling	36 90	
Collected moth work	40 30	
Collected interest	626 66	
Collected interest	626 66	
Abated	558 66	
Uncollected	3213 12	
	\$11101 10	\$11101 10

1916

Amount as per warrant	\$ 24066 78
Added to warrant	336 58
Street sprinkling	196 62
Moth work	103 93
Interest	477 10
Collected taxes	\$ 13527 89
Collected street sprinkling	196 62
Collected moth work	103 93
Collected Interest	477 10
Abated	572 22
Uncollected	10303 25

\$ 25181 01 \$25181 01

1917

Amount as per warrant	\$164581 99
Added to warrant	72 34
Bay State St. R. R. Excise Tax	2279 45
Street sprinkling	1621 34
Moth work	2379 15
Interest	60 19
Collected taxes	\$135167 97
Collected street sprinkling	1621 34
Collected moth work	2379 15
Collected interest	60 19
Abated	306 38
Uncollected	29179 98
Uncollected Excise Tax	2279 45

\$170994 46 \$170994 46

SUMMARY COLLECTOR'S CASH ACCOUNT

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	Taxes	Moth Work	Street Sprinkling	Interest	Total
1914	\$ 1938 37	\$ 70 91	\$ 21 56	\$ 366 93	\$ 2397 77
1915	6625 46	40 30	36 90	626 66	7329 32
1916	13527 89	103 93	196 92	477 10	14305 54
1917	135167 97	2379 15	1621 34	60 19	139228 65
	\$157259 69	\$2594 29	\$1876 42	\$1530 88	\$163261 28

JOHN W. BELL
Collector of Taxes

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (10000 due 1918)	\$112000 00
Water Bonds, 3½% (3000 due 1918)	47000 00
Sewer Bonds, 4% (5000 due 1918)	105000 00
And'r Loan Bonds, 4% (5000 due 1918)	15000 00
High School Loan, 4% (6000 due 1918)	105000 00
	<hr/> \$384000 00

Assets

Cash, General Fund	\$ 5648 10	
Cash, Water Loan	5026 59	
Cash, Sewer Loan	356 59	
Cash, High School Loan	1742 28	
Cash, Sewer Assessments	5776 13	
	<hr/>	18549 69
Uncollected taxes	42696 35	
Street sprinkling	464 64	
Moth work	665 15	
	<hr/>	43826 14
Commonwealth, State Aid	1230 00	
Commonwealth, pauper account	119 70	
Cities and Towns, pauper account	43 25	
Cities and Towns, Mothers' Aid	144 67	
Commonwealth, Mothers' Aid	328 16	
Sewer Assessments	9503 75	
Unpaid Water Rates of January 1	6288 62	
Sinking Funds	58715 01	
Unpaid St. Ry. Franchise and Excise Tax	3215 74	
	<hr/>	79588 90
Balance against Town		242035 27
		<hr/> \$384000 00

GEORGE A. HIGGINS, Treas., in

DR.

Balance Jan. 1, 1917, General Fund	\$ 16755 27
Balance Jan. 1, 1917, High School Loan	69907 63
Balance Jan. 1, 1917, Water Loan	5026 59
Balance Jan. 1, 1917, Sewer Loan	2960 15
Balance Jan. 1, 1917, Abbott Village Sewer Ass'm't	6504 50
Balance Jan. 1, 1917, Water Bonds, premium	50 78
Balance Jan. 1, 1917, Sewer Bonds, premium	151 16
Commonwealth, Corporation Tax	20583 16
Commonwealth, Bank Tax	4866 86
Commonwealth, Income Tax	31111 49
Commonwealth, reimbursement taxes on land	44 29
Commonwealth, Soldiers' exemption	86 30
Commonwealth, State Aid	1141 74
Commonwealth, school tuition	316 50
Commonwealth, industrial schools	74 99
Commonwealth, Mothers' Aid	266 67
Commonwealth, hospitals for consumptives	25 71
Commonwealth, contagious diseases	45 72
Commonwealth, pauper account	19 00
Commonwealth, temporary aid	147 80
Commonwealth, Highway Com., Lowell Street	2509 21
Commonwealth, Highway Com., Highway Dept.	206 56
Commonwealth, Highway Com., moth work	35 63
Commonwealth, hawkers' licenses	104 00
Essex County, Lowell Street	2480 84
Essex County, dog tax	625 64
Essex County, killing dogs	42 00
Massachusetts Highway Commission, refund	3 00
Andover National Bank, notes	80000 00
John W. Bell, Collector, taxes	157259 69
John W. Bell, Collector, interest on taxes	1530 88
John W. Bell, Collector, street sprinkling	1876 42
<i>Amount carried forward</i>	<hr/> \$406760 18

account with the Town of Andover

CR.

Orders paid

Schools	\$ 53710 90
Highway Department	44693 58
Lowell Street	7442 51
Park Department	1279 06
Street Lighting	6187 24
Police	4997 00
Fire Department	10564 41
Brush Fires	219 00
Printing and Stationery	1194 62
Insurance	3390 68
Miscellaneous	1433 31
Town House	1569 46
Town Officers	6645 86
Spring Grove Cemetery	3600 88
Board of Health	1493 81
Moth Work	5903 30
Tree Warden	671 53
Public Dump	75 00
Hay Scales	100 00
Interest on Notes and Bonds	17592 33
Memorial Day	350 00
Special G. A. R. appropriation	100 00
Memorial Hall Library	1800 00
Memorial Hall Library, dog tax	625 64
Almshouse Expenses	5381 04
Almshouse Repairs	233 50
Relief out of Almshouse	4247 31
Soldiers' Relief	1039 25
State Aid	1230 00
Mothers' Aid	953 50
Retirement of Veterans	300 00

Amount carried forward

\$189024 72

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$406760 18
John W. Bell, Collector, moth work	2594 29
John W. Bell, Collector, interest on deposits	134 81
Board of Public Works, water rates	24780 82
Board of Public Works, service pipe	1542 86
C. J. Stone, Trial Justice, fines	143 90
N. P. Frye, Trial Justice, fines	15 00
Almshouse, F. A. Swanton, Supt.	1087 60
Spring Grove Cemetery, sale and care of lots	1111 04
Town Hall rents	433 00
School Dept., tuition and supplies	825 58
Cities and Towns, pauper account	445 47
Cities and Towns, Mothers' Aid	152 00
Hay Scales	83 25
Fire Dept., use of horses	1118 30
Fire Dept., rent of shed	50 00
Highway Dept., labor and supplies	985 86
Highway Dept., sidewalk assessments	1702 19
W. H. Crowley, sealer's fees	47 50
George A. Higgins, Town Clerk, fees	189 00
Liquor Licenses	3 00
Board of Health, slaughter licenses	4 00
Board of Health, garbage licenses	2 00
F. H. Stacey, milk licenses	12 00
J. H. Playdon, moth supplies	69 65
Old Schoolhouse, Ballardvale, rents	136 50
Andover Nat'l Bank, interest on deposits	1009 28
Andover Nat'l Bank, interest on High School Loan	1330 30
Sewer Dept., house connections	3349 49
Sewer Dept., assessments	6377 55
Sewer Dept., interest on assessments	198 64
High School Bonds, 101-110	10000 00
<i>Amount carried forward</i>	<hr/> \$466695 06

account with the Town of Andover

CR.

<i>Amount brought forward</i>	\$189024 72
Redemption 13 Water Bonds	13000 00
Redemption 5 Andover Loan Act Bonds	5000 00
Redemption 5 Sewer Bonds	5000 00
Redemption, 5 High School Bonds	5000 00
Water Department	16002 48
Sewer Department	13314 34
Sewer Dept., premium for redemption of bonds	151 16
Water Dept., premium for redemption of bonds	50 78
Sewer Assessment for redemption of bonds	4848 84
Sewer Sinking Funds	1000 00
Water Sinking Funds	750 00
Treasurer Sinking Funds, sewer assessments	1240 01
Sewer House connections, refunds	153 01
New High School	77294 67
High School Loan, premium for redemption of bonds	2138 11
Old Colony Trust Co., certification of High School Bonds	75 00
County Tax	15632 36
Commonwealth, State Tax	22000 00
Commonwealth, Bank Tax	1935 56
Commonwealth, Highway Tax	2535 00
Andover National Bank Notes	80000 00
Total expenditures	456146 04
Balance on hand Jan. 1, 1918	
General Fund	\$5648 10
High School Loan	1742 28
Water Loan	5026 59
Sewer Loan	356 59
Abbott Village Sewer Assessments	5776 13
	\$474695 73

GEORGE A. HIGGINS, Treas., in account with the Town of Andover

DR.

<i>Amount brought forward</i>	\$466695 06
High School Bonds, interest	11 11
H. F. Marland, reimbursement Board of Health	18 00
Postoffice, redemption of keys	40
Scientific Equipment Co., refund High School Loan	1 02
Tree Warden Dept., sale of wood	551 25
Phillips Academy, street lighting	230 00
Water Loan, premium for redemption of bonds	50 78
Sewer Loan, premium for redemption of bonds	151 16
High School Loan, premium for redemption of bonds	2138 11
Sewer Dept., assessments for redemption of bonds	4848 84
Total receipts	<u>\$474695 73</u>

Richardson Fund—Frye Village School

DR.

Balance January 1, 1917	\$1168 88
Andover Savings Bank, interest	47 20
	<u>\$1216 08</u>

CR.

Edward E. Babb & Co.	9 17
Mary B. Smith	3 50
Deposit, Andover Savings Bank	1203 41
	<u>1216 08</u>

Draper Fund

DR.

Balance January 1, 1917	1167 01	
Andover Savings Bank, interest	47 14	
	<hr/>	1214 15

CR.

Deposit, Andover Savings Bank	1214 15	
	<hr/>	1214 15

Edward Taylor Fund

DR.

Balance January 1, 1917	238 59	
Andover Savings Bank, interest	9 62	
	<hr/>	248 21

CR.

Deposit Andover Savings Bank	248 21	
	<hr/>	248 21

Varnum Lincoln Spelling Match

DR.

Balance January 1, 1917	521 48	
Andover Savings Bank, interest	20 24	
	<hr/>	541 72

CR.

H. C. Sanborn, Supt. of Schools	20 00	
Deposit, Andover Savings Bank	521 72	
	<hr/>	541 72

Isaac E. Giddings Burial Ground Fund

DR.

Balance January 1, 1917	\$1000 00	
Andover Savings Bank, interest	40 40	
	<hr/>	1040 40

CR.

F. L. Brigham, Treas. South Cemetery	40 40	
Deposit, Andover Savings Bank	1000 00	
	<hr/>	1040 40

Cemetery Funds

DR.

Balance January 1, 1917	17137 86	
Andover Savings Bank, interest	712 78	
Deposits for perpetual care	1650 00	
Andover National Bank Stock	200 00	
Andover National Bank dividends	12 00	
Cash	56 00	
	<hr/>	19768 64

CR.

Paid for care of lots	\$ 625 00	
Deposits, Andover Savings Bank	18883 64	
Andover National Bank Stock	200 00	
Cash	60 00	
	<hr/>	19768 64

CORNELL FUND

RECEIPTS

Amount of Fund		\$5000 00
Deposited in Savings Banks		5000 00
Balance from last account	\$ 68 47	
Income	207 50	
	<hr/>	275 97

EXPENDITURES

Paid for coal and wood	\$233 33	
Balance on hand	42 64	
	<hr/>	275 97

W. D. WALKER
C. N. MARLAND
JOHN C. ANGUS

Trustees

AUDIOTS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$5648 10
High School Loan	1742 28
Water Loan	5026 59
Sewer Loan	356 59
Abbott Village Sewer Assessments	5776 13

\$18549 69

NESBIT G. GLEASON

JOHN S. ROBERTSON

WALTER H. COLEMAN

Auditors

RECOMMENDATIONS OF FINANCE COMMITTEE

The Finance Committee has examined with great care all the requests for appropriations. We are impressed with the constantly rising market in both labor and materials. Bearing in mind, in addition, the probability of a serious increase in the State Tax, the committee has given its approval only to such appropriations as are absolutely needed in the conduct of the several town departments. With one exception, as noted, the conclusions of the Committee are unanimous.

The following is a list of appropriations recommended by the committee for 1918:

Almshouse expenses	\$ 4500 00
Almshouse repairs	300 00
Relief out of Almshouse	4300 00
Aiding Mothers with Dependent Children	500 00
Board of Health	1500 00

(In view of the fact that this Board returned over \$500.00 unexpended balance to the Town in 1917, the amount recommended is deemed sufficient.)

Brush Fires	600 00
Fire Department	9400 00
Hay Scales	125 00
Highway Department, sidewalks, snow	25000 00

(It is estimated by the Board of Public Works that the sum recommended is sufficient for maintenance. The committee is of the opinion that no sum should be appropriated this year beyond that required for maintenance; and that economy may be wisely effected now by deferring new construction. It should be noted that this recommendation is not unanimous, two votes being recorded against the recommendation and in favor of the amount requested by the Board of Public Works.)

<i>Amount carried forward</i>	\$46225 00
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<i>Amount brought forward</i>	\$46225 00
Insurance	2000 00
Insurance (Workmen's Compensation)	1600 00
Interest	17000 00
Memorial Hall Library	1800 00
Memorial Day	350 00
Post 99, G. A. R.	100 00
Miscellaneous	3000 00

(As this is the only contingent fund to meet any emergency that may arise, without calling a special town meeting, the committee is of the opinion that this sum should be available.)

Parks and Playsteads	1500 00
Police	5500 00

(As all employees of the town have received advances in wages, the Police, in the judgment of the committee, should receive the moderate increase which this recommendation provides.)

Printing and Stationery	1400 00
Public Dump	75 00
Retirement of Veterans, Acts 1912	300 00
Redemption of Water Bonds	13000 00
Redemption Punchard School Bonds	6000 00
Redemption Andover Loan Act Bonds	5000 00
Schools and Receipts	60000 00

(The increase in the recommendation over last year's appropriation is due to the increase in teachers' wages—now low—the advance in the cost of fuel and greater amount used; the addition of a building to the plant with consequent additional cost of operation, together with the advance in the upkeep of every nature. We are advised by the School Committee that no extraordinary alterations or repairs are planned, and that the appropriation is to be used solely to maintain the schools at their present standard.)

<i>Amount carried forward</i>	\$164850 00
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<i>Amount brought forward</i>	\$164850 00
Sewer Department Maintenance	2500 00
Sewer Department Sinking Fund	1000 00
Soldiers' Relief	1100 00
(The committee feels that cause for increase is well understood and that any comment is not necessary.)	
Spring Grove Cemetery	2500 00
(And receipts from sale of lots)	
State Aid	2500 00
(The amount expended under this item is fully refunded by the State.)	
Street Lighting	6500 00
Town Officers	6900 00
(This increase is to provide for the payment by the Town of the bonds of the Town Treasurer and Tax Collector.)	
Town House	3000 00
(The town has been ordered by the State Board of Health to make material alterations in the provision for confining prisoners in the Police Station. The cells must be brought from the basement to the first floor. A cell must be provided for women, and improved sanitary conditions must be made.)	
Tree Warden, Gypsy and Browntail Moth Dept.	3500 00
(The bulk of the amount recommended —\$3100—is decreed by the State Forester; the balance is for the use of the Tree Warden.)	
Water Department	
Maintenance	15000 00
(The increase in maintenance is due to the general advance in labor and materials; necessary repairs upon the pumping equipment and additional labor and power required to carry out the contract with Lawrence by which that city is now furnished with water. The	
<i>Amount carried forward</i>	<hr/> \$209350 00

<i>Amount brought forward</i>	\$209350 00
money received from Lawrence, under this contract, more than offsets the amount expended and reverts to the Town Treasury.)	
Construction	1800 00
Sinking Fund	750 00
	<hr/>
Total	\$211900 00

The Finance Committee is also required to make recommendations to the voters concerning all articles in the Town Warrant involving the expenditure of money. The Committee, therefore, makes the following recommendations:—

- Article 4. Not approved. (The expenditure of so large a sum as will be required to carry out the provision of this article estimated by the Board of Public Works, some \$20,000, is deemed wholly inadvisable this year.)
- Article 5. Referred to the Lighting Committee.
- Article 6. Approved. (This work has been ordered by the State Board of Health.)
- Article 7. Approved. (This appropriation provides for the installation of a single-unit electric pump. When it is realized that our high pressure sytsem depends upon a single oil engine, the need of an emergency pump is obvious. Without such emergency pump, in the event of a breakdown to the oil engine, the high pressure system would be useless.)
- Article 8. Not approved. (The approval of Article 7 automatically effects the disapproval of Article 8.)
- Article 9. Not approved. (As we are advised that Essex Street is a County road, the Committee suggests that the Town instruct the selectmen to petition the County Commissioners to lay out the portion of Essex Street involved, in order that the purpose desired may be

obtained. The cost will, under this plan, be apportioned between the County and Town.)

Article 10. Approved. (The recommendation provides for carrying out an understanding between the State, County and Town, by which each interest should contribute an equal amount each year for this work until completed.)

Article 11. Not approved. (The Committee heartily approves the purpose of this Article, but for the reason that the method proposed is illegal, approval must be withheld. The abatement of taxes is placed by the statute in the hands of the assessors, with which officials the Committee feels the situation may be safely intrusted.)

Article 14. Not approved, in present form. The following is suggested:

To see if the Town will vote to amend its By-Laws by inserting under Article 4 thereof, sections to be numbered 12, 13, 14.

Section 12.—The selectmen may, as provided by Chapter 102 of the Revised Laws of Massachusetts and amendments thereto, license suitable persons to be junk collectors, to collect, by purchase or otherwise, junk, old metals, and second-hand articles from place to place within the limits of the town of Andover, and may revoke such licenses at pleasure, and any place, vehicle or receptacle used for the collection or keeping of the articles aforesaid may be examined at all times by the selectmen, or by any person by them authorized so to do.

Section 13.—A license for the collection of junk shall not be granted to any person who is not a citizen of the United States unless such person shall have declared his intention to become a citizen of the United States.

Section 14.—A license shall be granted and issued only to such persons as have resided in the town of Andover for one year next preceding the date of application.

A license fee of not less than five dollars (\$5.00) must

be paid to the Town Clerk at the time of making application for such license, and in the event that the license is not granted, the Town Clerk shall refund to the applicant the amount deposited.

Respectfully submitted,

HARRY M. EAMES
SAMUEL H. BOUTWELL
GEORGE ABBOT
CHESTER W. HOLLAND
JOHN H. CAMPION
WALTER M. LAMONT
FREDERIC G. MOORE
HENRY W. BARNARD
BARNETT ROGERS

Finance Committee

HIGH SCHOOL BUILDING

REPORT OF SCHOOL BUILDING COMMITTEE

After several years of planning and discussion, it was decided, at the town meeting of March 1916, to provide for the building of a new high school; the vote passed was as follows:

1.

That the town raise and appropriate the sum of one hundred thousand dollars (\$100,000.00) for the purpose of building and equipping a new high school building to be located on land in front of the present Punchard School building; to make any changes deemed necessary to preserve and use the present Punchard School building; and to make any necessary changes in the central heating plant and its connections.

2.

That for the purpose of building and equipping said new high school building the town treasurer is hereby authorized to issue and sell bonds of the town to an amount not exceeding \$100,000, dated October 1, 1916, and payable \$5000 thereof on the first of October in each of the years 1917-1936 inclusive, bearing interest at a rate not exceeding 4 per cent per annum payable semi-annually. The said bonds shall be denominated on their face Andover High School Loan 1916.

3.

That the moderator appoint a committee of five in number to be known as the High School Building Committee, said committee to be authorized and instructed to obtain plans, make contracts, approve payments, and to do and act as may be necessary and proper to carry out all provisions of the foregoing vote.

4.

That the committee to whom is entrusted the construction of the new high school building may defer action if, upon consid-

eration of plans and figures, they deem it wise to do so.

The moderator, Mr. Alfred L. Ripley, appointed Messrs. Burton S. Flagg, Henry A. Bodwell, John Alden, Harry M. Eames, and Edward V. French, as the Building Committee. The committee started at once upon its work; Mr. Flagg was elected chairman, and Mr. Bodwell, clerk. Mr. Alden attended the first few meetings and then illness prevented his further activity, and his death following soon after, deprived the town of the services of a man who had keen interest in the problem, and who would have been delighted to give his thought and experience to the work. The committee deeply regretted his loss. In the beginning the committee asked Mr. N. C. Hamblin to sit with them, that his special knowledge of high school conditions from his experience as principal might be available. After the action of the special town meeting in June 1916, providing for the filling of vacancies, the moderator appointed Mr. Hamblin to the committee, to fill the place left vacant by the death of Mr. Alden.

After a careful investigation, the committee selected Messrs. Fisher, Ripley and LeBoutillier of Boston, as architects for the new work. Their services have proved most satisfactory, and Mr. LeBoutillier by his residence in the town, has been able to give the work much closer supervision than would ordinarily be possible. Messrs. French and Hubbard of Boston, were chosen as engineers for the heating work, and they have handled their part of the planning and supervision to the full satisfaction of the committee.

The first step was a study of general high school conditions and tendencies, so that the building planned would represent the best thought in high school work, fitted to the peculiar needs of Andover. Representatives of the State Board of Education came to Andover at our request, and gave many helpful suggestions from their broad experience, and answered such questions as had arisen regarding our own problem. The committee then visited a number of modern high school buildings, and thereby obtained many valuable ideas, both as to features which were desirable, and things which should be avoided. The first question before plans could be started, was as to the number of scholars likely to seek

high school training in the next ten or fifteen years. Considering the number of scholars now in the high school, the rate of growth in recent years, and the tendency of a larger percentage of grammar school pupils everywhere to seek high school education, it seemed clear that any building now constructed should provide for not less than 400 scholars. This was a third larger number than had been considered in previous plans, but even with full allowance for the special factors in Andover, due to other schools, it appeared certain that it would be unwise to build a new high school for less than 400 pupils.

With this foundation, work upon the actual plans was started and pushed vigorously. It was felt that the new building and the old should form one unit. This was what the town evidently desired and was what efficiency and economy required if the old building was to be retained. After some study, it was found that this could all be accomplished, and a plan developed which would make full use of both buildings.

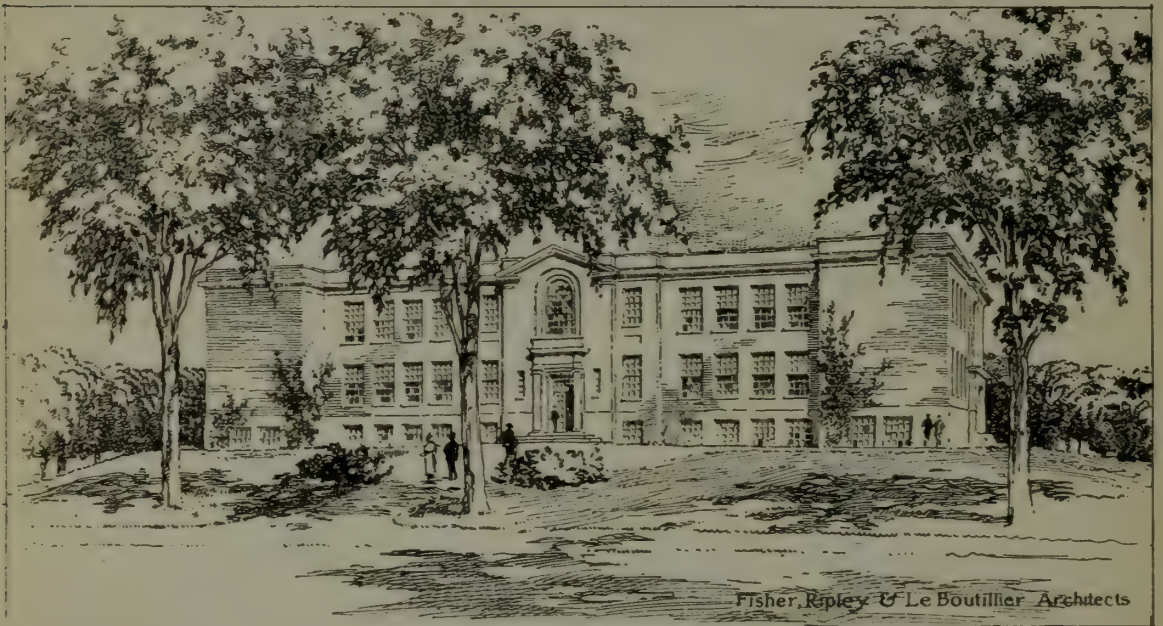
The plan adopted provides a new building of simple and substantial construction, designed to be a convenient and efficient workshop for the various activities which must be carried on in any modern high school. The building is so planned that it can be extended later, by the addition of wings, and still be attractive and convenient. Punchard hall, slightly altered and re-decorated, will be used for all assembly purposes, and the ell furnishes an excellent room for the manual training work. The remainder of the old building can be refitted to meet such future needs as may arise.

On the completion of the plans and specifications for the new building, bids were obtained from a number of contractors. As usual in such work, the first bid brought the total cost above \$100,000 available. The committee felt that the building must be constructed within the appropriation. The plans were again studied to see where still further savings could be made, and were somewhat modified by omitting a number of desirable but not absolutely essential things. Several of the lowest bidders then refigured the work with the result that the cost was brought within the appropriation. The general contract was awarded to

the J. H. Mendell Engineering and Construction Company of Manchester, N. H., who gave the lowest final figures. The heating work was given to Bride Grimes & Co. of Lawrence, Mass., and the new boilers to Wright Stafford & Son, also of Lawrence. Excavation work started in August 1916 and was pushed energetically. The contractors worked together harmoniously, and each performed his work in a most satisfactory manner. The new building was practically completed in September 1917, and the high school sessions opened in it on time.

NEW BUILDING

The walls, including all the main partitions, were built of strong hollow interlocking tile, and the exterior walls were faced with brick. The trimmings are of substantial concrete stone. The main ventilating flues are of tile or brick, carried through the roof and covered with concrete caps. The roof is of the flat type

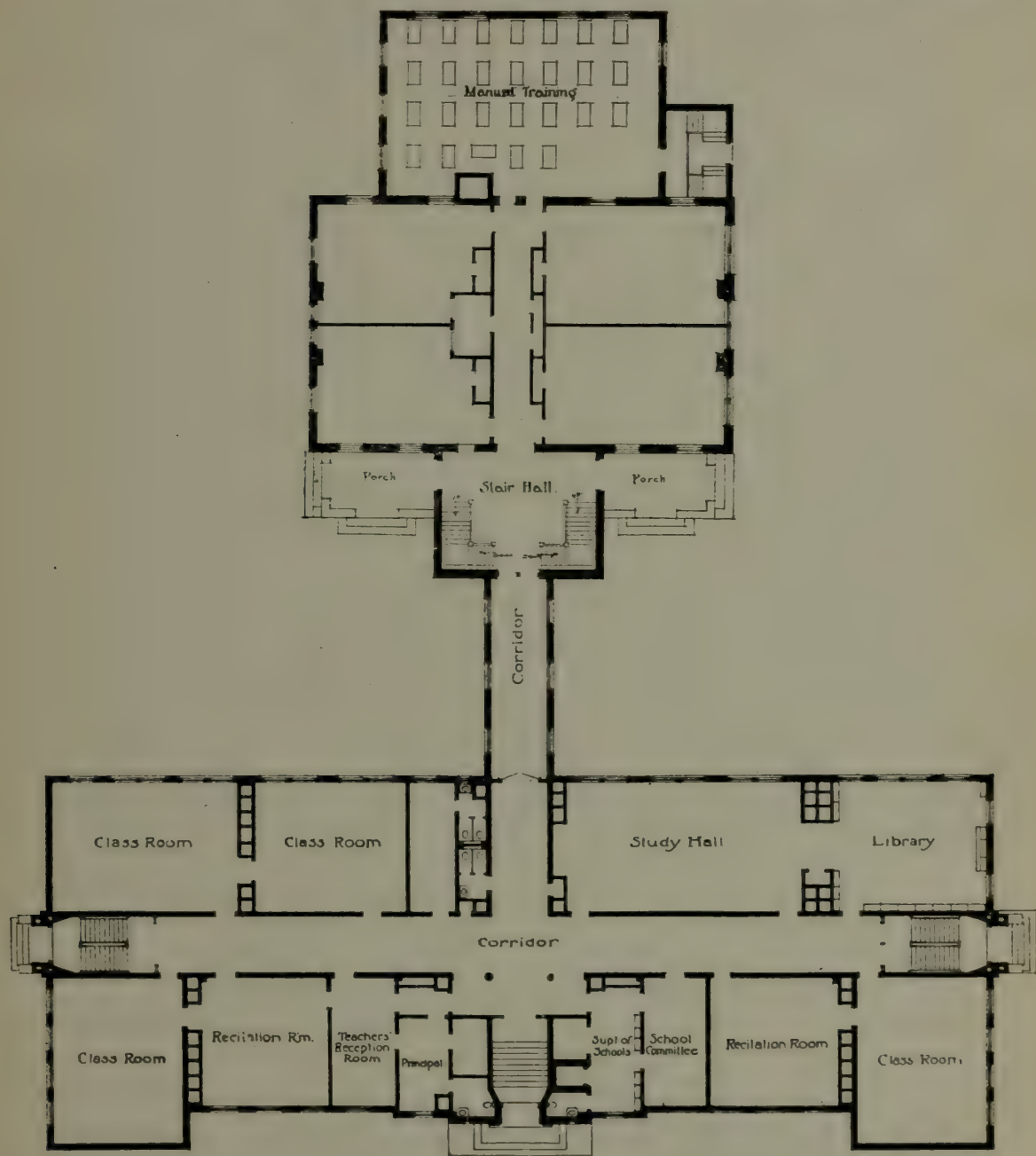


VIEW FROM PUNCHARD AVENUE

draining to interior conductors, and carried over the parapet wall so that extensive flashings were unnecessary. The roof covering is of tar and gravel which long experience has proved most reliable and durable. The aim was to obtain reliable construction which would be as free as possible from the need of repairs. The exterior is plain; our funds did not permit much decoration. Careful study was given that the proportions and general lines should

be good, and the structure substantial and dignified. When the harshness of any new work is softened by time and the general setting relieved of its present barrenness by a few shrubs and vines, a high school building in keeping with the needs of Andover and with the simplicity and utility for which Andover stands, will be found to have been secured.

The use of tile for all main walls permitted the interior plaster-



FIRST FLOOR

ing to be directly upon the tiles, thus making furring and lathing unnecessary, and avoiding the hollow flues running from bottom to top of the building which are common in all ordinary construction, and through which fire can spread readily. The tile parti-



tions give further excellent fire cut-offs. Cost prevented making the floors and roof of incombustible construction. Heavy hard-pine joists were therefore used, but all the plastering on ceilings and minor partitions was done on metal lathing. The space between the

top-story ceiling and the roof which is necessary for insulation against heat and cold, and which in many public buildings is a bad fire-trap, is sub-divided by incombustible partitions, so that any fire could spread but slowly, with every chance that it could be controlled within narrow limits. A wide corridor runs lengthwise of the building, with an easy stairway at each end, the stairways being separated from the corridor in each story by a substantial partition of wood and wire glass. Such partitions keep smoke out of the stairways in case of fire, and hold fire back until there is ample time for everyone to get out of the building.

In all work, the many rules of the State governing schoolhouse construction have been followed exactly. These specify the amount of window area required, the width of corridors and stairways, the amount of air which must be provided for each room, and many other similar details. The class rooms are all good and there are no waste spaces.

There are twelve class rooms, varying in size to meet the needs of different classes for study and recitation. There are also two science laboratories, a lecture room, a typewriting room and ample storage closets for apparatus, books and supplies. An attractive library opens from one of the large study rooms, so that scholars may learn the use and value of good books. In addition to the high school needs, rooms are provided for the Superintendent of Schools and the School Committee.

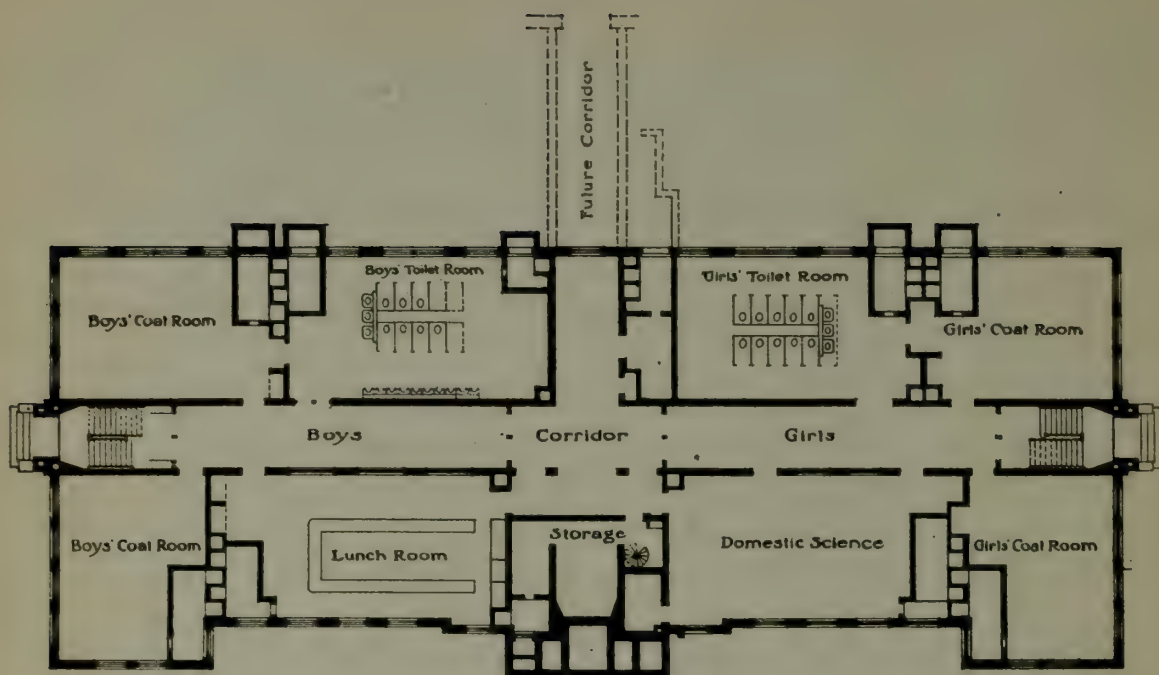
In the basement ample and light coat and toilet rooms are provided, also a room for domestic science work, and a good lunch room.

The coloring of finish and walls throughout has been kept in harmonious and pleasing shades. The result is a thoroughly attractive and convenient interior.

Fire protection has been provided by two standpipes with small hose equipment in the corridors of the new building, and by chemical extinguishers and fire pails in the old building. We desired to provide some automatic sprinklers but costs prevented.

HEATING PLANT

It was possible to enlarge the present central plant or to put boilers into the new building. After study, it was found best for



BASEMENT PLAN

economy in handling and general safety, to enlarge the present plant, and two new boilers were added. More chimney capacity was developed and a thoroughly good and convenient plant with four boilers was established. A new 8-inch steam pipe was laid from this plant for heating both the new and the old high school buildings. The ventilation required by law is often secured by the use of a fan, but after studying the various possible arrangements, a simple gravity system with the heating coils in the ventilating stacks was adopted, thus making a fan unnecessary. The use of low pressure steam was continued which worked well with the heating arrangements of the older grade schools. The heating plant has done its work well so far, and with the few adjustments necessary in putting any new system into operation it will undoubtedly give entire satisfaction, and prove an easily handled and economical heating equipment.

THE OLD PUNCHARD BUILDING

The committee felt that the one vital point was to get a new building of the size and arrangement which the high school work of the town so greatly needed. Only the most careful planning permitted doing this within the \$100,000 available. To do less would hamper future development and prove a bad invest-

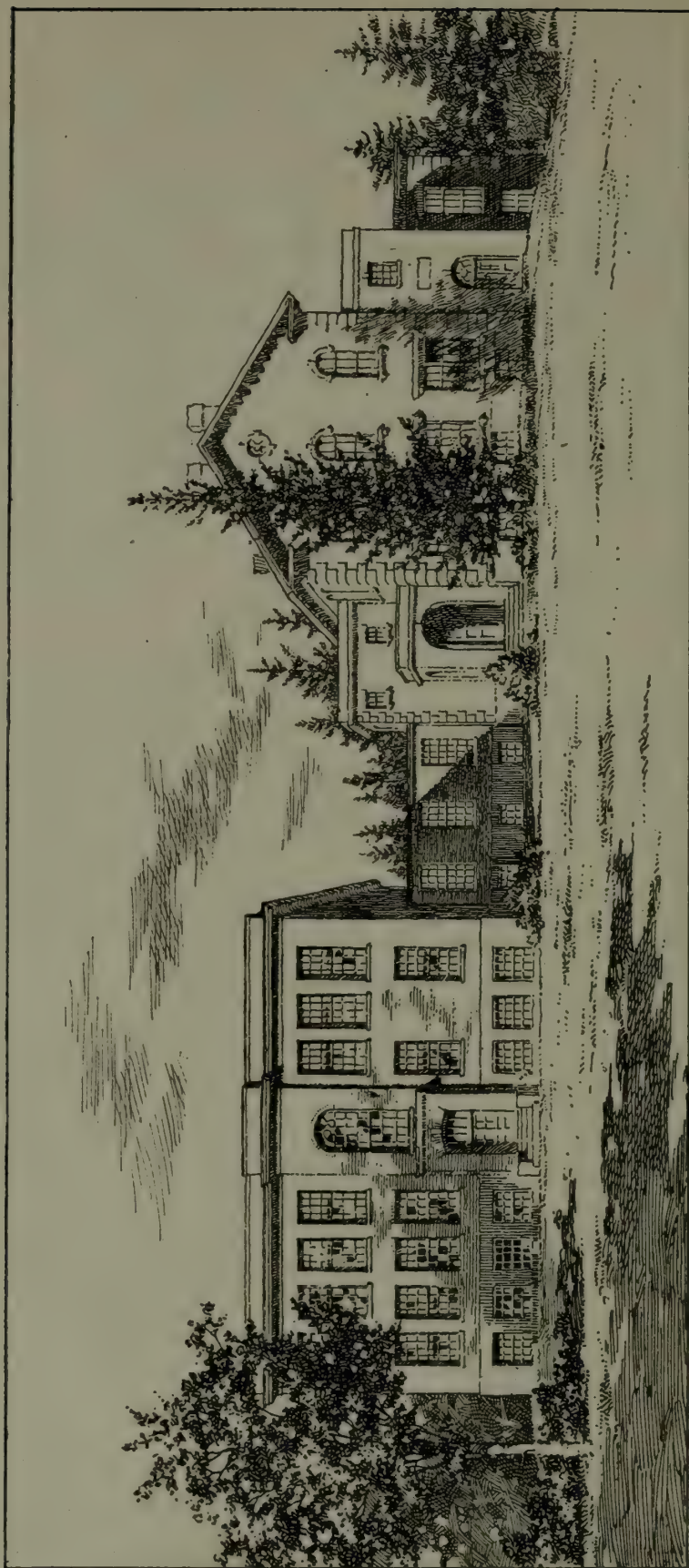
ment. The retention of the old building and the use of the hall and of the ell for manual training made this possible, but the inevitable result was that some improvements in the old building which were desirable, though not absolutely essential, could not be made. These conditions were presented to the town meeting in March 1917, and a special appropriation of \$10,000 was then made so that the desirable work on the old building which could be done most advantageously in connection with the new work could be undertaken at once, and the vote passed was as follows:

That the town raise and appropriate the sum of \$10,000 and authorize the High School Building committee to expend the same to build a passageway between the old and new Punchard buildings and to make improvements on the old Punchard building and to provide additional equipment.

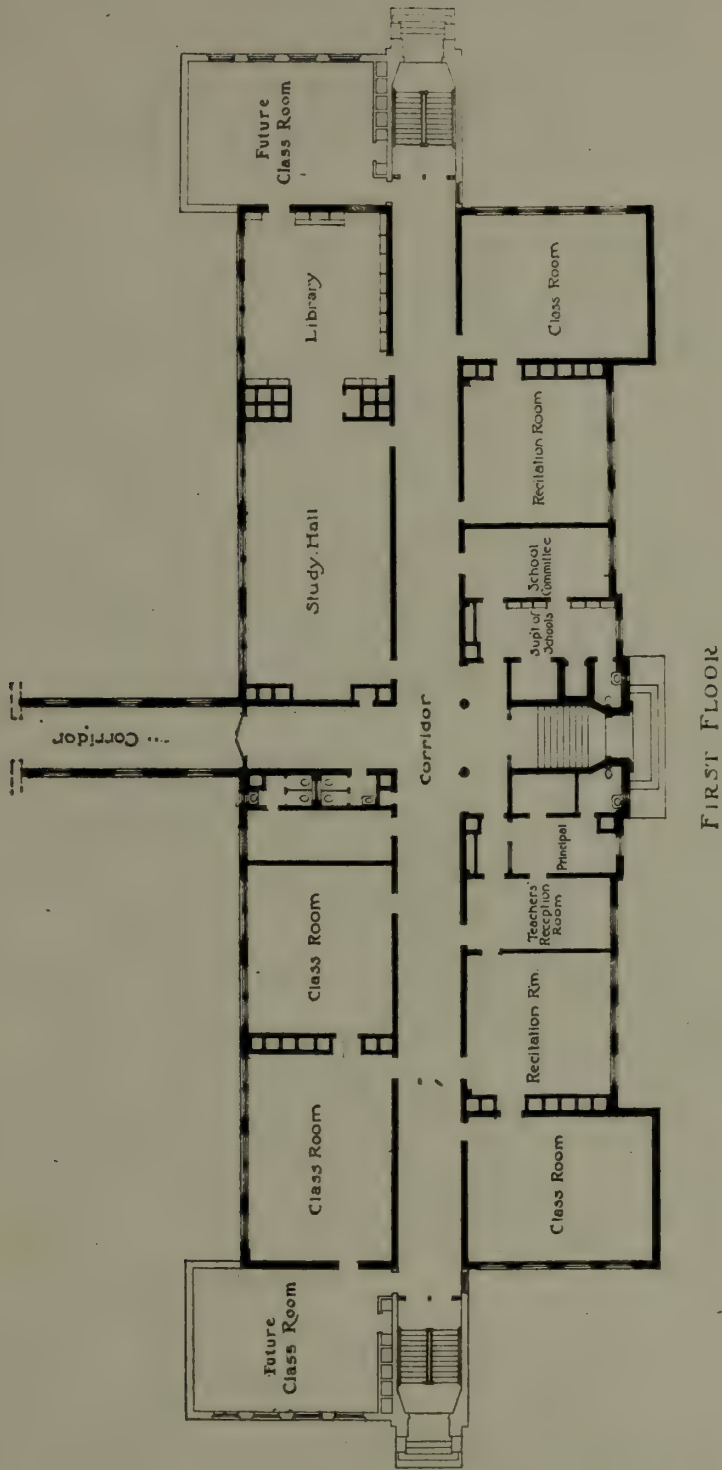
That for the purpose of building a passageway between the old and new Punchard buildings and providing additional equipment:—the town treasurer is hereby authorized to issue and sell bonds of the town to an amount not exceeding \$10,000, dated August 1st, 1917, and payable \$1000 thereof on the 1st of August in each of the years 1918-1927 inclusive, bearing interest at a rate not exceeding 4% per annum payable semi-annually. The said bonds shall be denominated on their face Andover High School Loan 1917.

The passageway connecting the new and the old buildings was built, some changes in the hall were made, a new floor laid, toilet rooms provided, and all repainted. A substantial brick stair-tower as a second exit was provided, as the law required. The east wing was converted into a workshop for manual training. The gable roof over the main stairs which somewhat obstructed the light in the new building was removed, and a few other minor changes made. The floor plans show how the new and the old buildings are now connected and made to work together as a unit.

In carrying out these plans our studies showed that in the future an excellent gymnasium could be made by throwing the first floor and the basement of the old building into one high room,



VIEW LOOKING FROM THE SOUTH



FIRST FLOOR

the hall being supported on steel girders. This or other possible uses may be determined upon as the future demands.

COSTS

The main items of receipts and expenditures are as follows:

FUNDS

Appropriation, March 1916	\$100000 00
Appropriation, March 1917	10000 00
Interest on bank balance to Dec. 31, 1917	1763 84
	<hr/>
	\$111763 84

EXPENDITURES

New Building

General Contract, Mendell Eng. & Const. Co.	\$73376 00
Extras less deduction, Mendell Eng. & Const. Co.	834 19
Blasting and extra foundations, Mendell Eng. & Const. Co.	801 57
Heating and ventilating, Bride, Grimes & Co.	8182 00
Enlarging central heating plant, Bride, Grimes & Co.	5874 00
New boilers, Wright Stafford & Sons	2000 00
Architects' fees (both buildings)	5541 90
Engineers' fees and expenses	1278 46
Furnishings and equipment	4382 98
Miscellaneous	477 10

Old Building

Passageway	1560 00
New stair tower for fire escape	1960 00
Remodeling	5126 28

Total	<hr/> \$111394 48
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The option given in the original vote to delay building if the committee deemed it wise was given very careful consideration. After reviewing the subject from all directions and getting the best possible light on probable future developments, the com-

mittee were unanimously of the opinion that the new building should not be delayed. Later developments have shown that this was a wise conclusion. The town needed the building and there no prospects of better prices. As a matter of fact, all costs have advanced sharply since our contracts were made in 1916. We believe the town has obtained good values for the money expended.

THE FUTURE

The present plant has room for considerable growth of the high school, but it was felt that a long look should be taken into the future, and all plans of to-day are such that the plant could be enlarged in 10 or 15 years from now if this was found necessary. Our plan provides for the construction of wings which would take care of about 120 additional pupils, bringing the total capacity of the high school plant up to 520. The cut on page 117 shows the ground plan as it would be if such additions were made.

The plant as it stands is ready for use with all the essentials provided, but as stated there is some further work which can be done to advantage. Some of this may be met by the gifts of classes and by the action of patriotic townsmen who would like to add something to the simple essentials. Shower-baths can be provided later, and space and connections for them have been left in the toilet rooms. A few shrubs, vines, and trees would help the general appearance of the grounds. Automatic sprinklers in the manual training room and at a few other points are desirable, and the water connections have been provided so that these can be put in easily. It is believed that all these things and a few others of similar nature will be provided in due time.

The committee has held sixty-two regular meetings in addition to the trips to other high schools and to much time spent in supervising the construction work. The work of the committee has gone on with entire harmony and unanimous agreement on all points, and there has been no expense to the town for any of the work done by the committee. Our relations with contractors,

architects, and engineers have been most pleasant. The work as a whole has proved an interesting, even if at times an arduous service for the town.

BURTON S. FLAGG
HENRY A. BODWELL
N. C. HAMBLIN
HARRY M. EAMES
EDWARD V. FRENCH

Committee.

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the fourth day of March, 1918, at six o'clock a.m., to act on the following articles:—

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, one Trustee of Cornell Fund for one year (to fill vacancy), two Trustees of Spring Grove Cemetery for one year (to fill vacancies), Fence Viewers, Pound Keeper, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks

and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will vote to extend the Water System from its present terminal on Lowell Street a distance of 5600 feet to Brown Street, then 3900 feet on Brown Street, on petition of Charles W. Livingston and others, and appropriate the sum necessary for same.

Article 5.—To see if the town will vote to place an electric light on Lincoln Street between Fred McCollum's and James Magee's and appropriate a sum of money therefor, on petition of Arthur O'Hara and others.

Article 6.—To see if the town will appropriate the sum of \$2000 for additions to the filter-beds, as ordered by the State Board of Health, on petition of the Board of Public Works.

Article 7.—To see if the town will appropriate the sum of \$2500 for the purpose of installing a 5-inch double suction pump, together with a 30-horsepower motor, and accessories, in the Pump Station on Bancroft Road, on petition of the Board of Public Works.

Article 8.—To see if the town will affirm its vote at the annual meeting of 1917, whereby it appropriated \$4000 for the construction of a two-unit pumping plant within the reservoir circle off Bancroft Road and appropriate an additional sum of \$1000 to be added to the unexpended balance of the \$4000 appropriated; also to grant the Board of Public Works a sufficient sum from the Water Bonds, necessary to extend the water-main from the proposed pumping plant to a point near the present pumping plant on Bancroft Road, on petition of T. E. Rhodes and others.

Article 9.—To see if the town will appropriate the sum of \$2500 for widening Essex Street Bridge over Shawsheen River,

on petition of the Board of Public Works.

Article 10.—To see if the town will appropriate a sum of money not exceeding \$5000, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 11.—To see if the Town will vote that citizens of the town in the National War Service and those hereafter engaged in the service shall be assessed for, but shall be exempt during the war, from paying a polltax, upon petition of Fred G. Cheney and others.

Article 12.—To see if the Town will grant the use of the Engine House Hall in Ballard Vale to the Ballard Vale Village Improvement Society, and appropriate a sum of money sufficient to put it in proper condition for use for public gatherings, on petition of William Shaw and others.

Article 13.—To act on any amendments to the Building Laws passed at the Annual Town Meeting of 1917, which may be offered by the Committee to meet the requirements of the Attorney General.

Article 14.—To see if the Town will vote to amend its By-Laws by inserting under Article 4 thereof sections to be numbered 12, 13 and 14.

Section 12.—The Selectmen may, as provided by Chapter 102 of the Revised Laws of Massachusetts and amendments thereto, license suitable persons to be junk collectors, to collect, by purchase or otherwise, junk, old metals, and second-hand articles from place to place within the limits of the Town of Andover and may revoke such licenses at pleasure, and any place, vehicle or receptacle used for the collection or keeping of the articles aforesaid may be examined at all times by the Selectmen, or by any person by them authorized so to do.

Section 13.—A license for the collection of junk shall not be granted to any person who is not a citizen of the

United States unless such person shall have declared his intention to become a citizen of the United States.

Section 14.—A license shall be granted and issued only to such persons as have resided in the town of Andover for one year next preceding the date of application.

A license fee of not less than five (\$5.00) dollars must be paid to the Town Clerk at the time of making application for such license, and in the event that the license is not granted the Town Clerk shall refund to the applicant the amount deposited.

Article 15.—To fix the pay of the firemen for the ensuing year.

Article 16.—To determine the method of collecting the taxes for the ensuing year.

Article 17.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18.—To determine what disposition shall be made of unexpended appropriations.

Article 19.—To act upon the report of the Town Officers.

Article 20.—To determine the amount of money to be raised by taxation the ensuing year.

Article 21.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock a.m., and may be closed at 2 o'clock P. M.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by the By-Laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this sixteenth day of February, A.D. 1918.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

PUNCHARD FREE SCHOOL

REV. E. VICTOR BIGELOW	MYRON E. GUTTERSON
SAMUEL H. BOUTWELL	REV. C. W. HENRY
REV. NEWMAN MATTHEWS	FRANK T. CARLTON
HARRY M. EAMES	HARRY H. NOYES

Trustees

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1917

Cash in bank	\$ 4334 97	
Real estate, mortgages and bonds	72119 31	
	<hr/>	\$76454 28

December 31, 1917

Cash in bank	4605 77	
Real estate, mortgages and bonds	71848 51	
	<hr/>	76454 28

January 1, 1917

Cash in bank	4334 97	
Mortgages paid during year	3570 80	
	<hr/>	7905 77

December 31, 1917

Cash in bank	4605 77	
Investment in new mortgages	3300 00	
	<hr/>	7905 77

INCOME

January 1, 1917

Cash in bank	1659 52	
Interest on mortgages and bonds	3729 60	
	<hr/>	5389 12

EXPENDITURES

N. C. Hamblin, Principal	800 00	
Edna G. Chapin, instructor	1050 00	
Helen DeM. Dunn, instructor	995 00	
Percival M. Symonds, instructor	685 00	
Ruth R. Hamblin, instructor	300 00	
Sarah B. Coddington, instructor	75 68	
Andover National Bank, box rent	5 00	
Rogers & Angus, insurance	25 00	
Smart & Flagg, insurance	10 00	
Harry H. Noyes, treasurer	200 00	
City of Boston	3 50	
Expense	8 42	
Henry Wardworth, legal advice	15 00	
Cash on hand	1216 52	
	<hr/>	\$ 5389 12

BARNARD FUND

January 1, 1917		
Cash in bank	\$ 25 50	
Dividends	40 00	
	<hr/>	\$ 65 50
Prizes awarded		
First—Gertrude Louise Lombard	20 00	
Second—Margaret F. Hinchcliffe	12 00	
Third—William R. Brewster	8 00	
December 31, 1917, Cash in bank	25 50	
	<hr/>	65 50

DRAPER FUND

January 1, 1917		
Cash in bank	1416 56	
Dividends	55 60	
	<hr/>	1472 16
A. T. Thompson, scientific apparatus	180 00	
Scholarship	40 00	
Scholarship	40 00	
December 31, 1917, Cash in bank	1212 16	
	<hr/>	1472 16

GOLDSMITH FUND

January 1, 1917, Cash in bank	252 18	
Dividends	10 18	
	<hr/>	262 36
Prizes awarded		
Girl's prize—Helen C. Higgins	5 00	
Boy's prize—Harry Roland Payne	5 00	
December 31, 1917, Cash on hand	252 36	
	<hr/>	262 36

HARRY H. NOYES, *Treasurer*

MEMORIAL HALL LIBRARY

FORTY-FIFTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

The trustees of the Memorial Hall Library submit herewith their annual report to the town for the year 1917.

An adequate statement of the activities of the library may be found in the reports of the treasurer and the librarian which follow.

The ministry of books has never been more important than it is to-day. Not only are those volumes which relate to the war, its causes, its phenomena, its psychology and its economics in constant demand but as the realities of the great struggle come closer to our people an increasing solace is being found in the books which have been proved to contain enduring messages. This is shown to a remarkable degree by the list of books read by men at the front, and by the demands of our stay-at-home borrowers. The library is meeting these requests to the extent of its equipment. It has been the agent of the people of Andover in rendering a service to the camp libraries out of all proportion to the size of our town. Nor is the work of the library staff confined to supplying the wants of those who seek information; by displaying books, pamphlets and bulletins where all who come may see, they have suggested the study of the important ways in which the individual can render his due of patriotic service. A

public library's value is never to be measured by quantitative standards, but the reality of its service is greater to-day than ever before.

E. KENDALL JENKINS
FREDERIC S. BOUTWELL
GEORGE F. SMITH
ALFRED E. STEARNS
BURTON S. FLAGG
WILLIAM H. RYDER
NATHAN C. HAMBLIN

Trustees

TRUSTEES OF MEMORIAL HALL LIBRARY
In account with the Town of ANDOVER, MASS.

RECEIPTS

Balance from last year	\$2451.08
Town Appropriation	1800.00
Dog Tax	625.64
Income from Investments	3094.81
Fines	147.96
War Library Fund	610.50
Phillips Charitable Fund from P. A. Trustees	600.00
Gifts	5.90
	<hr/>
Total	\$9335.89

EXPENDITURES

Salaries	\$3493.27
Lighting and heating	579.32
Periodicals	186.25
Book binding	246.64
Books	687.42
Insurance	220.38
Phillips Charitable Fund, invested	600.00
War Library Fund	610.50
Repairs and sundry items	453.54
Cash on hand	2258.57
	<hr/>
Total	\$9335.89

Statement of Income and Expenses of the Trustees of Memorial Hall Library for the Year of 1917

INCOME

	Main.	Books	Cornell	Total
Income from investments	\$2100 68	\$666 23	\$327 90	\$3094 81
Town appropriation	1800 00			1800 00
Dog tax	625 64			625 64
Fines	147 96			147 96
Gifts		5 90		5 90
Total	<u>\$4674 28</u>	<u>\$672 13</u>	<u>\$327 90</u>	<u>\$5674 31</u>

EXPENSES

Salaries	\$3380 00		\$113 27	\$3493 27
Lighting and heating	454 46		124 86	579 32
Periodicals	186 25			186 25
Book binding	246 64			246 64
Books		687 42		687 42
Insurance	220 38			220 38
Sundry items	420 41		33 13	453 54
Total	<u>\$4908 14</u>	<u>\$687 42</u>	<u>\$271 26</u>	<u>\$5866 82</u>
Unexpended income			56 64	
Deficit for the year	\$ 233 86	\$ 15 29		\$ 192 51

Condition of Funds and Unexpended Income on hand Jan., 1918

	Funds	Unex. Inc.
Maintenance Fund	\$46600 00	\$ 784 06
Book funds (general)	13600 00	555 73
Book funds (special)	3800 00	112 12
Cornell fund (permanent)	5000 00	262 72
Cornell fund (purchase)	3854 65	337 85
Special		64 94
Total	<u>\$72854 65</u>	<u>\$2117 42</u>

INVESTMENTS

Bangor & Aroostook R.R. 4s	\$11000 00
Boston Elevated Ry. Co., 4½s	1000 00
Boston Elevated Ry. Co., 4s	10000 00
Chicago Railway Co., 5s	9962 50
Montreal Tramways Co., 5s	9962 50
Michigan State Tel. Co., 5s	4981 25
Boston & Maine R. R. 4s	2000 00
Boston & Albany Equip. Trust, 4½s	2981 10
Savings Banks	15254 65
Mortgage on Real Estate 5%	4000 00
Am. Tel. & Tel. Co., 4 shares	571 50
Principle Cash	141 15
Pacific Tel. & Tel. Co., 5s	1000 00
	<hr/>
Total	\$72854 65
Income cash on hand	2117 42
Principle cash on hand	141 15
	<hr/>
Total	\$2258 57

FREDERIC S. BOUTWELL, *Treasurer*

I certify that I have examined and found correct the above statements as of January 15, 1918, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash on deposit as shown has been verified and found correct.

BURTON S. FLAGG, *Auditor*

January 29, 1918.

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library:

GENTLEMEN: I herewith submit the report of the library for the twelve months ending December 31, 1917.

The end of 1917 finds the main library with a record of 35,731 books issued for home use during the year, — an increase of 2029 over 1916. At Ballardvale, 6136 books were borrowed. The total is 41,867 as compared with 40,377 in 1916.

To explain fluctuations of circulation is always difficult, but when the United States declared war upon Germany last April, it certainly seemed probable that, with the many new war activities springing up on every side, less use than usual would be made of the public library. This has not been the case. Not only has the circulation increased but there has been a larger use of books other than fiction. People are intensely interested in the war, in military matters, in all current history, in economic questions and other problems of the day, and we have done our best to meet these demands by providing timely publications and by utilizing the numerous books and pamphlets sent us by our government and those of our Allies.

In the spring when the country was being urged to plant gardens, we bought a number of new books on agriculture, on vegetables, and other gardening books adapted especially for amateurs. This collection was used constantly by the Supervisor engaged by the Public Safety Committee and by the instructor in charge of the school gardens. Others came frequently for these books and more than a few people who planted war gardens owe a part of their success to their town library. Later, we obtained and distributed from the government, from the Essex County Agricultural School, from the State Agricultural College at Amherst and from the National Food Emergency Commission at Washington, hundreds of circulars on gardening, on canning, preserving and drying fruits and vegetables. Every family in Ando-

ver had the opportunity to obtain free of charge this advice from experts.

After the canning season, we bought several valuable books on food conservation and household economics, cook-books showing how to prepare wholesome, nutritious food, using only ingredients which are plentiful and which cannot be exported. The constant demand for these books shows that they are proving helpful.

The library has done other war work during the year. When the American Library Association started its campaign to provide books for the men in service, Andover was asked to give an amount equivalent to 5% of its population. Including the \$100 sent us by Phillips Academy, the town gave for this purpose \$610, exceeding by about 30% its required quota.

People have also brought quantities of magazines and 8 books for the soldiers. These have been packed in boxes contributed by neighboring stores and have been sent, some directly to Ayer, others to the Boston Public Library, which is acting as clearing-house for camps in the South. The library will receive books for this purpose at any time and will see that they are packed and shipped.

We have also bulletined material relative to any special call, such as these war libraries, the Y. M. C. A., the Liberty Loans, the Red Cross, and in every way have tried to make our reading-room a publicity centre. The library has also joined the ranks of the fuel savers, and for the first time since we had the new heating plant, the glass covering has been placed on the well to the Memorial Hall. This is a detriment to ventilation and a real sacrifice on the part of the staff, but enabled us to run the small heater until Thanksgiving, and will permit its use early in the spring.

During February and again in November, a series of talks was given to two different classes in the Punchard School on the use of reference books. Each division heard four; the first being on the general make-up of a book, the purpose of indexes and the systems of classification and cataloging used in the library. The second talk dealt with encyclopedias and dictionaries in general,

and with reference books of biography and current statistics; the third with books of especial value in looking up questions of history, geography, government and literature; while the fourth considered books helpful in music, art, religion and education, and explained the use of the very important magazine indexes. Each talk was followed by questions involving the use of the books just explained, and from the enthusiasm with which the classes went to work upon these problems, it was plain that they enjoyed the experience, as well as learned something during the time spent at the library. In all, twenty-four talks were given to six different groups of pupils, and immediate result was seen in the way the young people tried to put into practice their newly acquired knowledge, and their evident pride in greater ability to use a library that seemed to them, perhaps for the first time, peculiarly their own. It is proposed to continue these talks as a part of the required course for every student entering Punchard.

We have sent the usual libraries to the district schools and in addition have loaned books to the High School. The library has now an adequate collection of children's books, and it is hoped to extend this privilege to any public school desiring it. The use of the library by both pupils and teachers is large and gratifying.

Before Christmas we held our usual holiday exhibit of books suitable for children, a collection that was enjoyed by visitors and which proved helpful to people in search of gifts. Early in December the librarian went to Haverhill to speak before a meeting of the librarians and trustees of Essex County on the best juvenile books of the season.

Our record of gifts acknowledges books and flowers from various friends. Many volumes that would ordinarily have come our way have gone this year to the men in camp and at the front. It was a fine collection of books that passed through our hands for this purpose and a good proportion we would gladly have welcomed for our own shelves.

Many and very interesting war books and pamphlets have been sent us from England through Sir Gilbert Parker and the University of Glasgow. The books have been placed in circulation; the

pamphlets filed for use. The library also receives regularly from Washington the Official Bulletin issued by the Public Information Committee, and Food Notes from the War Service Board of the American Library Association.

The branch at Ballardvale is in a flourishing condition and the apparent drop in its circulation is due to the greatly increased number of young people now coming to the High School and using the main library not only for themselves but for their families. During the winter the officials in charge of the Liberty Bond issues found the branch library the most convenient place to receive installment payments.

This is our first experience of war, but at the end of 1917, we can look back with the consciousness that the Memorial Hall Library has been both a help and a resource to the community. We hope this may be our only war report, but whatever may be in future, the coming year will find us prompt to grasp any chance to be of service, ready to meet any demand upon us.

Respectfully submitted,

EDNA A. BROWN,

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	35731
Number issued at Ballardvale	6136
Total	41867
Percentage of fiction circulated	69
Percentage of non-fiction circulated	31
New borrowers registered	338
Actual number of cards in use	2726
Books added by purchase	665
Books added by gift	122
Total accessions	787
Books withdrawn, worn out, etc.	251
Total number of books in the library	23789
Volumes rebound	268
Volumes bound, periodicals, etc.	74

BALLARDVALE

Number of books issued for home use	6136
Percentage of fiction	84
Percentage of non-fiction	16
Number of cards in use	350
Books added during 1917	118
Books now belonging to branch	1290

GIFTS TO THE LIBRARY

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, the Andover Village Improvement Society and from the following individuals:

B. M. Allen; C. K. Bancroft; Mrs. R. N. C. Barnes; Mrs. Walter Buck; Mrs. P. W. Dove; Miss M. W. Dwight; Loring Higgins; Andrew Lawrie; W. K. Moorehead; Sir Gilbert Parker; Mrs. A. F. Pease; Mrs. George Ripley; G. B. Ripley; Miss Dorothy Wade.

NEW BOOKS ADDED DURING 1917

State and government documents and annual reports are not listed. Duplicates, replacements and books for Ballardvale are also omitted.

GENERAL REFERENCE BOOKS

- 028 B13 Bacon, Corinne, comp. Children's catalog of 3500 titles.
929 E42 *Eliot, S. A. ed. Biographical history of Massachusetts. 5v.
028.7 H77 Hopkins, F. M. comp. Reference guides that should be known.
423 W39 Webster, Noah, comp. Unabridged dictionary.

PERIODICALS

- 051 R32 American monthly review of reviews, v.54, 55.
071 A552 Andover Townsman, v. 29, 30.
051 A881 Atlantic monthly, v. 118, 119.
052 B56 Blackwood's magazine, v. 200.
051 B64 Bookman, v. 44, 45.
051 C33 Century, v. 92, 93.
705 C84 Craftsman, v.30
370.5 E39 Elementary school teacher, v. 17.
051 F77 Forum, v. 56, 57.
716 G16 *Garden magazine, v. 24, 25.
051 H23 Harper's magazine, v. 133, 134.
705 H81 *House beautiful, v. 40, 41.
051 I38 Independent, v. 87-90.
705 I61 *International Studio, v. 59-62.
020.5 L61 Library journal, v.41
051 L71 Littell's living age, v.290-294.
071 N21 Nation, v. 103, 104.
910.5 N21 National geographic magazine, v. 30, 31.
052 N62 Nineteenth century, v. 80.
051 N81 North American review, v. 204, 205.
799.5 O94 Outing, v. 68, 69.
051 O94 Outlook, v. 114-116.
621 P81 Popular mechanics, v. 26, 27.
020.5 P96 Public libraries, v. 21.
051 S147 St. Nicholas, v. 43, pt. 2, 44, pt. 1.
370.5 S35 School arts magazine, v. 16.
605 S416 Scientific American, v. 115, 116.
051 S434 Scribner's magazine, v. 60, 61.

* Gifts

305 S96
051 W89

Survey, v. 36-38.
World's work, v. 32, 33.

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

- | | |
|------------|--|
| 174 A88 | Atwood, A. W. How to get ahead. |
| 220.92 B28 | Barton, G. A. Archaeology and the Bible. |
| 248 B38p | Beard, Frederica, comp. Prayers for use in home, school and Sunday school. |
| 174 B56 | Blackford & Newcomb. Analyzing character. |
| 177 C75 | *Conde, Bertha. Business of being a friend. |
| 209 D41 | *Denney, James. Studies in theology. |
| 248 E44 | Elliott, Walter. The spiritual life. |
| 173 E77 | Espey, C. E. Leaders of girls. |
| 193 F46 | Figgis, J. N. Will to freedom. |
| 173 F53 | Fisher, D. C. Self-reliance. |
| 234 F78c | Fosdick, H. E. Challenge of the present crisis. |
| 225 G62 | Goodspeed, E. J. Story of the New Testament. |
| 234 H66r | Hodges, George. Religion in a world at war. |
| 240 H99 | Hyde, W. deW. Gospel of good will. |
| 252 J83 | Jowett, J. H. Whole armor of God. |
| 134 L82r | Lodge, Sir Oliver. Raymond. |
| 248 M13 | McComb, Samuel. The new life. |
| 173 P96 | Puller, Edwin. Your boy and his training. |
| 270.6 S22 | Sanford, E. B. History of the reformation. |
| 174 S39 | Schwab, C. M. Succeeding with what you have. |
| 237 S63g | Slaterry, C. L. Gift of immortality. |
| 292 T18 | Tatlock, J. M. Greek and Roman mythology. |
| 201 W46 | Wells, H. G. God the invisible king. |
| 377 W69 | Wilbur, M. A. A child's religion. |

GENERAL ECONOMICS

- | | |
|-----------|---|
| 331.4 B43 | Bennett, H. M. Women and work. |
| 331.4 B65 | *Bosworth, L. M. Living wage of women workers. |
| 337 B76 | *Bridgman, R. L. Passing of the tariff. |
| 396 G37 | Gilbert, Eleanor. Ambitious woman in business. |
| 338.9 K61 | *Kingsbury, S. M. ed. Labor laws and their enforcement. |
| 364 M12 | *MacBrayne & Ramsay. One more chance. |
| 330 M24 | McPherson, L. G. How the world makes its living. |
| 365 O81s | Osborne, T. M. Society and prisons. |
| 304 R67f | Roosevelt, Theodore. Foes of our own household. |
| 352 T37 | Thompson, C. D. Municipal ownership. |
| 325 W24 | Warne, F. J. Tide of immigration. |

BOOKS ON EDUCATION

- | | |
|-----------|---|
| 168 B17 | Baker, G. P. Specimens of argumentation. |
| 373 F95 | Fuess, C. M. An old New England school. |
| 377 L19 | Lamoreaux, A. A. Unfolding life. |
| 150 O82 | O'Shea, M. V. Social development and education. |
| 373 S79 | Stearns, A. E. and others. Types of schools for boys. |
| 371 S91 | Strayer & Norsworthy. How to teach. |
| 424 U93 | Utter, R. R. Everyday words and their uses. |
| 375.8 V24 | Value of the classics. |

MILITARY TRAINING

- | | |
|---------|---|
| 359 E12 | Earle, Ralph. Life at the U. S. Naval academy. |
| 355 E44 | Ellis & Garey. Plattsburg manual. |
| 355 F88 | French, Allen. At Plattsburg. |
| 355 K46 | Kerrick, H. S. Military and naval America. |
| 355 M45 | *Maxim, Hudson. Defenceless America. |
| 359 S86 | Stirling, Yates. Fundamentals of naval service. |

NATURE BOOKS

- | | |
|------------|--|
| 502 B23 | Barber, F. D. and others. First course in general science. |
| 398.2 B36 | Beals, K. N. Flower lore and legends. |
| 587 C62 | Clute, W. N. Our ferns in their haunts. |
| 595.7 F11c | Fabre, J. H. C. Life of the caterpillar. |
| 595.7 F11g | Fabre, J. H. C. Life of the grasshopper. |
| 595.7 F11m | Fabre, J. H. C. The mason-bees. |
| 580 K24w | Keeler, H. L. Wayside flowers of summer. |

BOOKS FOR HOME AND FARM

- | | |
|---------|---|
| 646 B19 | Baldt, L. I. Clothing for women. |
| 641 B54 | *Bitting, A. W. Canning and how to use canned food. |
| 716 B78 | Brock, A. C. Studies in gardening. |
| 640 B85 | Buchanan, Florence. Home crafts of to-day and yesterday. |
| 716 C11 | Cable, G. W. Amateur garden. |
| 640 C78 | Cooper, L. F. How to cut food costs. |
| 640 C88 | Croy, M. S. 1000 shorter ways around the house. |
| 641 E13 | East, A. M. Kitchenette cookery. |
| 641 F52 | Fish, A. Z. American Red Cross text-book on home dietetics. |
| 635 F64 | Flint, E. D. The garden patch. |
| 640 F85 | Franks, T. Q. Household organization for war service. |
| 641 G41 | Gillmore, M. M. comp. Meatless cookery. |
| 640 G51 | Glover, E. G. comp. Book of hints to housewives. |

632 H43	Herrick, G. W. Insects of economic importance.
640 H83	Howe, F. C. High cost of living.
635 K93	Kruhm, Adolph. Home vegetable garden.
716 M16	McFarland, J. H. My growing garden.
796 P65	Pinkerton, K. G. Woodcraft for women.
641 P87	Powell, Ola. Successful canning and preserving.
641 P93	Prince, Jane. Letters to a young housekeeper.
635 R32	Rexford, E. E. A. B. C. of vegetable gardening.
643 R72	Rose, M. S. Feeding the family.
635 S46	Selden, C. A. Everyman's garden every week.
640 S42	Scott, R. C. Home labor saving devices.
640 S53	Sheaffer, W. A. Household accounting and economics.
643 S55	Sherman, H. C. Food products.
635 T36	Thomas & Castle. Vegetable growing for amateurs.
641 W11	Wade, M. L. Book of corn cookery.
716 W64	Wilder, L. B. My garden.
614.3 W64	Wiley, H. W. 1001 tests of foods, etc.

MECHANICAL AND FINE ARTS

533.6 C68h	Collins, A. F. How to fly.
533.6 C69	Collins, F. A. The air man.
770 C69	Collins, F. A. The camera man.
537 H75	Homans, J. E. First principles of electricity.
669 L61	Liddell, D. M. comp. Metallurgists' and chemists' handbook.
629.1 P14	Page, V. W. How to run an automobile.
621.3 S53	Sharp, J. M. Practical electric wiring.
759.1 B61	Blashfield, E. H. Mural painting in America.
740 B67	Bowers, R. S. Drawing and design for craftsmen.
738 C14	Camehl, A. W. Blue china book.
680 H142	Hall & Buck. Handicrafts for the handicapped.
782.2 K87	*Krehbiel, H. E. Studies in the Wagnerian drama.
738 L58	Lewis, J. S. Old glass and how to collect it.
749 R55	Robie, Virginia. Quest of the quaint.

LITERATURE, ESSAYS AND POETRY

808 B17	Baker, H. T. Contemporary short story.
824 B42b	Bennett, E. A. Books and persons.
824 B791	Brooks, C. S. Journeys to Bagdad.
821.08 C55	*Clarke, G. H. ed. Treasury of war poetry.
827 C59c	Clemens, S. L. Christian science.
824 C88p	Crothers, S. M. Pleasures of an absentee landlord.
821.08 C91	Cunliffe, J. W. ed. Poems of the great war.
822 D92f	Dunsany, E. G. M. D. P. Five plays.
821 F92m	*Frost, Robert. Mountain interval.

824 G79g	Grayson, David. Great possessions.
821.08 H12	Haynes & Harrison, comp. Camp-fire verse.
827 H42	Herford, Oliver. Confessions of a caricaturist.
821.08 H73	Holman, C. E. comp. In the day of battle.
028 K45	Kerfoot, J. B. How to read.
827 L46f	Leacock, Stephen. Further foolishness.
822 M33t	Marks, Jeannette. Three Welsh plays.
821.08 M75	Monroe & Henderson, comp. The new poetry.
821 S49	Service, R. W. Rhymes of a Red Cross man.
821.09 S93	Sturgeon, M. C. Studies of contemporary poets.
891.4 T12g	Tagore, Rabindranath. Gitanjali.
824 T78	Tryon, L. H. Speaking of home.
824 W56	Whibley, Charles. Pageantry of life.
821 Y34r	Yeats, W. B. Responsibilities, etc.

BIOGRAPHY

92 A211	Adams, C. F. Autobiography.
92 O71	*Barine, Arvéde. La Grande Mademoiselle.
92 U87	*Barrows, J. O. In the land of Ararat; sketch of Elizabeth F. B. Ussher.
92 C862	Creevey, C. A. S. Daughter of the Puritans.
92 D298	Davis, R. H. Adventures and letters.
92 G352	Gibbons, James, cardinal. Retrospect of fifty years. 2 v.
92 G388	Gilder, R. W. Letters.
92 L697	*Lister, Charles. Letters and recollections.
92 M834m	Mackail, J. W. Life of William Morris. 2v.
92 J921	*Page, Jesse. Judson, the hero of Burma.
92 G139s	Smith, S. K. John Galsworthy.
92 P683	Speer, R. E. Memorial of Horace Tracy Pitkin.
92 W932	*Wright, G. F. Story of my life and work.
369 C71	*Society of Colonial wars. Yearbooks. 5v.
369 M45d	*Mayflower descendant. 2v.
369 M45s	*Mayflower descendant. Meetings, etc.
922 G73	Gould, S. B. Lives of the saints. 16v.
927.5 M27	McSpadden, J. W. Famous painters of America.
923 S153	Saint-Simon, duc de. Memoirs.
923 S156	Sainte-Beuve, C. A. Portraits of the 17th century. 2v.
929.4 W41	Weekley, Ernest. Surnames.

Also *Vital Records of Brewster, Chelsea, East Bridge-water, Gloucester, Granville, Greenfield, Salem, Ux-bridge.

DESCRIPTION AND TRAVEL

- 726 A22 *Addis, M. E. L. Scottish cathedrals and abbeys.
 915.2 A54 Anderson, Isabel. Spell of Japan.
 919 A54 Anderson, Isabel. Spell of the Hawaiian islands.
 919.8 B28 Bartlett & Hale. Last voyage of the Karluk.
 918.7 B31 *Bates, Lindon. Path of the conquistadores.
 914.7 B31 *Bates, Lindon. Russian road to China.
 917.5 C84 Cram, Mildred. Old seaport towns of the south.
 971.2 D34 Deane, R. B. Mounted police life in Canada.
 941.5 D92 Dunn & Lennox. Glories of Ireland.
 914.7 G76w *Graham, Stephen. Way of Martha and the way of Mary.
 914.1 G875 Griffis, W. E. Bonnie Scotland and what we owe her.
 917.55 H13 Hale, L. C. We discover the Old Dominion.
 914.1 M17 *MacGregor, Alexander. Highland superstitions.
 918.8 M42 Matthews, G. S. Treasure.
 913.7 M78s *Moorehead, W. K. Stone ornaments used by Indians.
 915.2 N63 *Nitobé, Inazo. The Japanese nation.
 656 P31 *Peabody, R. E. Merchant venturers of old Salem.
 917.4 P87 Powell, L. P. Historic towns of New England.
 917.4 S24 Sargent, P. E. Handbook of New England.
 917.94 S25 Saunders, C. F. Finding the worth while in California.
 917.446 S52 Shackleton, Robert. Book of Boston.
 639 V61 Verrill, A. H. Real story of the whaler.

HISTORY

- 973 C36h Channing, Edward. History of the United States, v. 1-4.
 972 F76 *Fornaro, Carlo de. Carranza and Mexico.
 960 G35 Gibbons, H. A. New map of Africa.
 941.5 H32 Hay, Ian. The oppressed English.
 940.9 H33a Hazen, C. D. Alsace-Lorraine under German rule.
 940.9 H33m Hazen, C. D. Modern European history.
 973 N54 Nicolay, Helen. Our nation in the building.
 973.74 R62a *History of the 1st regiment heavy artillery, M.V. 1861-65.
 940.9 R72 Rose, J. H. Development of the European nations, 1870-1914.
 945 W15 Wallace, W. K. Greater Italy.

BOOKS ON THE GREAT WAR

- 940.91 A18 Ackerman, C. W. Germany the next republic?
 940.91 A36w Aldrich, Mildred. On the edge of the war zone.
 940.91 B15 *Bailey, W. F. Slavs of the war zone.

- 940.91 B22 *Bang, J. P. Hurrah and hallelujah.
 940.91 B77 *Brittain, H. E. To Verdun from the Somme.
 940.91 B46 *Bevan, Edwin. Method in the madness.
 940.91 B85b *Buchan, John. Battle of the Somme.
 940.91 C11 *Cammaerts, Emile. Through the iron bars.
 940.91 C44 Chitwood, O. P. Immediate causes of the Great war.
 940.91 D62 *Collected diplomatic documents.
 940.91 C82 *Cosmos, pseud. Basis of a durable peace.
 940.91 C94 Curtin, D. T. Land of deepening shadow.
 940.91 D32 Dawson, Coningsby. Carry on.
 940.91 E55 Empey, A. G. "Over the top."
 940.91 E68 Erichsen, Erich. Forced to fight.
 940.91 F91 Friends of France.
 940.91 G31m Gerard, J. W. My four years in Germany.
 940.91 G35 Gibbons, H. A. New map of Europe.
 940.91 G35r Gibbons, H. A. Reconstruction of Poland and the near east.

 940.91 G76 Grant, Robert. Their spirit.
 940.91 H19 *Hankey, Donald. A student in arms.
 940.91 H32k Hay, Ian. All in it! K 1 carries on.
 940.91 H32g Hay, Ian. Getting together.
 940.91 H34 *Headlam, J. W. History of twelve days, July 24-August 4, 1914.

 940.91 H34i *Headlam, J. W. The issue.
 940.91 H86 Huard, F. W. My home in the field of honour.
 940.91 H86m Huard, F. W. My home in the field of mercy.
 940.91 J61s Johnson, Owen. Spirit of France.
 940.91 K46 *Kerr, S. P. What the Irish regiments have done.
 940.91 M26 Mademoiselle Miss.
 940.91 M73 *Mokveld, L. German fury in Belgium.
 940.91 M96 *Murray, Gilbert. Faith, war and policy.
 940.91 N15 *Namier, L. B. Germany and eastern Europe.
 940.91 N48 New York Times. Current history of the war, v. 4-6
 940.91 N86 Nobbs, Gilbert. On the right of the British line.
 940.91 O94 *Out of their own mouths.
 940.91 S87 Stone, Gilbert. Women war workers.
 940.91 T78 *T'Serclaes & Chisholm. Cellar-house of Pervase.
 940.91 W19 *War of democracy; the Allies' statement.
 940.91 W21 *Ward, M. A. A. England's effort.
 940.91 W21t *Ward, M. A. A. Towards the goal.
 940.91 W46i Wells, H. G. Italy, France and Britain at war.
 940.91 W66 *Willson, Beckles. In the Ypres salient.
 973.91 W69w Wilson, Woodrow. War message, April 2, 1917.
 353.03 W69 *Wilson, Woodrow. Why we are at war.

FICTION

Aldrich, Darragh. Enchanted hearts.
Allen, Robert. Captain Gardner of the International police.
Andrews, M. R. S. Eternal feminine.
Bacheller, Irving. Light in the clearing.
Bailey, Temple. Mistress Anne.
Barbusse, Henri. Under fire.
Barr, A. E. Joan.
Barr, A. E. *Maid of old New York.
Bartlett, F. O. Triflers.
Bartley, Nalbro. Paradise auction.
Bell, J. J. Till the clock stops.
Benedict, Clare. *A resemblance, etc.
Benson, E. F. Michael.
Bilbro, Mathilde. Middle pasture.
Bindloss, Harold. Brandon of the engineers.
Bindloss, Harold. Carmen's messenger.
Bindloss, Harold. Johnstone of the border.
Bottome, Phyllis. The derelict.
Bottome, Phyllis. The second fiddle.
Brooks, Alden. The fighting men.
Brown, Alice. Bromley neighborhood.
Brown, K. H. Wages of honor.
Brubaker, Howard. Ranny.
Buchan, John. Greenmantle.
Buchan, John. Power-house.
Buckrose, Mrs. J. E. Match-makers.
Cholmondeley, Alice. Christine.
Churchill, Winston. Dwelling place of light.
Clifford, Sir Hugh. Further side of silence.
Conrad, Joseph. The shadow line.
Cooke, M. B. Bambi.
Cooke, M. B. Cinderella Jane.
Cutler, Robert. Louisburg Square.
Dalrymple, Leona. Kenny.
Dane, Clemence. Regiment of women.
Day, Holman. Where your treasure is.
Doubleday, Roman. Green tree mystery.
Doyle, Sir A. C. His last bow.
Doyle, Lynn. Mr. Wildridge of the bank.
Ferber, Edna. Fanny herself.
Flandrau, G. H. Cousin Julia.
Foote, M. H. Edith Bonham.
French, Allen. The hiding-places.

Goodrich, Arthur. Sign of freedom.
 Gordon, C. W. The major.
 Hall, Gertrude. Aurora the magnificent.
 Harker, L. A. Jan and her job.
 Harris, Corra. Circuit rider's widow.
 Hay, Ian. "Pip."
 Hill, Marion. McAllister's grove.
 Hopkins, W. J. Clammer and the submarine.
 Holme, Constance. The home-coming.
 Hough, Emerson. Man next door.
 Hughes, Rupert. In a little town.
 Jacobs, W. W. Castaways.
 Jordan, Elizabeth. Lovers' knots.
 Kerr, Sophie. Blue envelope.
 King, Basil. High heart.
 King, Basil. Lifted veil.
 Kingsley, F. M. Neighbors.
 Kipling, Rudyard. Diversity of creatures.
 Lane, Mrs. John. War phases according to Maria.
 Lea, F. H. Chloe Malone.
 Lee, Jennette. Green jacket.
 Lefevre, Edwin. To the last penny.
 Lewis, Sinclair. The innocents.
 Lincoln, J. C. Extricating Obadiah.
 Locke, W. J. Red Planet.
 Lynde, Francis. After the manner of men.
 Lynde, Francis. Stranded in Arcady.
 McCutcheon, G. B. Green fancy.
 MacHarg & Balmer. Indian drum.
 Mackay, I. E. Up the hill and over.
 Marshall, Archibald. Abington Abbey.
 Minitier, Edith. Our Natupski neighbors.
 Montgomery, L. M. Anne's house of dreams.
 Moore, Leslie. Antony Gray,—gardener.
 Mundy, Talbot. King — of the Khyber rifles.
 Nesbit, E. The incredible honeymoon.
 Neilson, Francis. Strong man's house.
 Norris, Kathleen. Martie the unconquered.
 Norris, Kathleen. Undertow.
 Norton, Roy. Unknown Mr. Kent.
 Nyburg, S. L. Chosen people.
 Olmstead, Florence. Anchorage.
 Onions, Mrs. Oliver. Boy with wings.
 Onions, Mrs. Oliver. Girls at his billet.

Onions, Mrs. Oliver. Miss Million's maid.
 Palmer, Frederick. The old blood.
 Pier, A. S. Jerry.
 Poole, Ernest. His family.
 Rice, A. H. Calvary Alley.
 Richmond, G. S. Brown study.
 Richmond, G. S. Red Pepper's patients.
 Ridge, W. P. Madam Prince.
 Rinehart, M. R. Long live the king!
 Rowland, H. C. Filling his own shoes.
 Scott, E. C. Elizabeth Bess.
 Seton, E. T. Preacher of Cedar mountain.
 Showerman, Grant. Country child.
 Sinclair, May. Combined maze.
 Slattery, Margaret. *Costly star.
 Smith, H. L. Other people's business.
 Van Schaick, George. Top-flat idyll.
 Wallace, Edgar. Clue of the twisted candle.
 Walpole, Hugh. Dark forest.
 Walpold, Hugh. Green mirror.
 Ward, M. A. A. "Missing".
 Webster, H. K. The thoroughbred.
 Wells, H. G. Soul of a bishop.
 Wharton, Edith. Summer.
 White, E. L. El Supremo.
 Wilkins & Kingsley. Alabaster box.

CHILDREN'S BOOKS; NON-FICTION

808.9 A75	Arnold & Gilbert. Stepping stones to literature. 7v.
92 W367b	Barnes, James. Hero of Stony Point.
680 B381p	Beard, Patten. Jolly book of playcraft.
680 B68	Bowsfield, C. C. How boys and girls can earn money.
821 C39d	Chaucer. Story of the Canterbury pilgrims.
614.8 C67	Cole & Ernst. First aid for boys.
636 C73	Comstock, A. B. The pet book.
338 C86	Crissey, Forrest. Story of foods.
793 D29	Davison, G. L. Games and parties for children.
821 D37	De la Mare, Walter. Peacock pie.
808.9 D56p	Dickinson, A. D. comp. Children's book of patriotic stories.
977.3 F63	Fletcher, M. E. Old settler stories.
355 G17j	Garey and Ellis. Junior Plattsburg manual.
590 H31	Hawkes, Clarence. Wood and water friends.
821.08 L94	Lovejoy, M. I. comp. Nature in verse.

566 M69	Mix, J. I. Mighty animals.
398.4 O42r	Olcott, F. J. comp. Red Indian fairy book.
252 P22c	Park, J. E. The children's bread.
920 P23	Parkman, M. R. Heroes of to-day.
920.7 P23	Parkman, M. R. Heroines of service.
523 P83	Porter, J. G. Stars in song and legend.
398.4 P96t	Poulsson, Emilie. Top of the world stories.
972 P92b	Prescott, W. H. Boys' Prescott.
398.4 S62n	Skinner, E. L. Nursery tales from many lands.
398.2 S72	Skinner, A. M. Topaz story book.
808.9 S64m	Smith, E. S. comp. Mystery tales for boys and girls.
398.4 T32	Thackeray, W. M. Rose and the ring.
973.2 W25	Warren, M. R. Little pioneers.
914.98 V26	Van Teslaer, J. S. When I was a boy in Roumania.
910 Y89	Youth's companion. By land and sea.
920 Y89d	Youth's companion. Daring deeds.
973 Y89	Youth's companion. A great republic.
917.3 Y89g	Youth's companion. Greater America.
920 Y89h	Youth's companion. Heroic adventures.
917.3 Y89e	Youth's companion. Our country; east.
917.8 Y89w	Youth's companion. Our country; west.
353 Y89	Youth's companion. Our national government.
590 Y89	Youth's companion. Talks about animals.
973.2 Y89	Youth's companion. Under the crown.
973.3 Y89	Youth's companion. Winning independence.

STORIES FOR CHILDREN

Aldon, Adair. Island of Appledore.
 Ames, J. B. Under boy scout colors.
 Ashmun, Margaret. Heart of Isabel Carleton.
 Baker, E. A. Girls of Fairmount.
 Brown, E. A. Spanish chest.
 Carruth, Hayden. Track's end.
 Dix, B. M. Blithe McBride.
 Fisher, D. C. Understood Betsy.
 Hasbrouck, L. S. Chokecherry Island.
 Knipe, E. B. Lost little lady.
 Lindsay, Maud. Story garden for little children.
 Peattie, E. W. The newcomers.
 Peattie, E. W. Sarah Brewster's relatives.
 Perkins, L. F. Belgian twins.
 Perkins, L. F. Cave twins.
 Pier, A. S. Plattsburgers.
 Sawyer, Ruth. This way to Christmas.
 Seaman, A. H. Girl next door.
 Wallace, Dillon. Bobby of the Labrador.
 Welsh, Charles, comp. Stories children love.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1917.

The attendance for the year has been 610. Of this number 163 were adults and 447 children; a good attendance, all things considered, and a slight increase over that of 1916, the number then being 600.

It is encouraging to know that a large proportion of the adult visitors were not idle observers, many being girls of eighteen or twenty years of age who came in a receptive frame of mind and appreciative of attention. This attitude toward the pictures has been shown to a marked degree by some of the children. A recent caller residing in New York and well acquainted with the Metropolitan Art Museum expressed much interest in the collection and regret that he could not tarry long. His emphatic approval was gratifying. Two other callers were western people.

The stereographs continue in great favor. The temperament of the child is plainly shown in the use of them. A few children have asked for stereographs from which they could obtain interesting subjects for use in language work, and occasionally an adult has spent a profitable half-hour with them. In the addition of new window-seat cushions of the original coloring, and new curtains, the gallery has acquired much of its former freshness. A most attractive place to visit. These improvements are a good ending for the year.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

EIGHTEENTH ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE TWENTY-NINTH ANNUAL REPORT OF
WATER COMMISSIONERS AND TWENTY-FIRST
ANNUAL REPORT OF SEWER
COMMISSIONERS

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1917

ANDOVER, MASS
THE ANDOVER PRESS
1918

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

*JOHN L. SMITH

CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS

*JOHN L. SMITH

*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT

*WM. S. JENKINS

*JOHN L. SMITH

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH

*FELIX G. HAYNES

JOHN W. BELL

*LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES

JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

HARRY M. EAMES

1907—1908

*FELIX G. HAYNES

JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY

JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas.

1914—1916

THOS. E. RHODES ('17)

BARNETT ROGERS ('16)

*LEWIS T. HARDY ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('20)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

SUPERINTENDENT

FRANK L. COLE

*Deceased

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of Andover:

In submitting our fifth annual report we would ask that the same be considered in conjunction with the four previous reports; in other words, we would request a review of the work done during the past five years, in order that our citizens may determine whether or not the expenditures have been worth while; and, in addition, to determine if the Board has not accomplished, to a certain degree at least, its chief aim in creating permanent improvements, particularly in highway construction, which, if properly maintained, will materially reduce the expenditures as time goes on.

ORGANIZATION

The first meeting was held on March 7th, and Mr. T. E. Rhodes having been re-elected, no changes were made in our organization.

IN MEMORIAM

In our last report we made special mention of the death of two highly respected citizens, former members of the Board, and by a singular coincidence two more have journeyed to that unknown land from which "no traveller returns".

John L. Smith was Sewer Commissioner from 1893 to 1899, and a member of the Board of Public Works from 1899 to 1906. Mr. Smith died March 14, 1917.

Felix G. Haynes was Water Commissioner from 1889 to 1899, and a member of the Board of Public Works from 1899 to 1908. Mr. Haynes died January 13, 1918.

In a sense these men were "charter" members, and it can

truthfully be said of them that they were "selected" men, giving freely of their time, without remuneration, that our citizens as a whole might benefit.

Never deviating from the course of duty, strictly honest, these capable and highly respected men have left behind a record which is an inspiration to those who interest themselves in the welfare and the upbuilding of our town.

WATER DEPARTMENT

As stated by our Superintendent, the cost of material—particularly cast-iron pipe—having advanced more than 100% over the cost of 1916, has prohibited, for the time being, further extensions in the water system. Cost of coal, oil and labor has also advanced, and we must provide for the overhaul of one steam pump at Haggett's Pond Station already contracted for. It will therefore be necessary that we have an amount for maintenance considerably in excess of what was voted last year. A careful estimate places this amount at \$13,500, which is \$2500 in excess of the amount appropriated one year ago.

For construction, which covers only the service pipe, we recommend the appropriation of \$1500, the same as last year.

HIGH SERVICE PUMP STATION

Under Article 10 of the Town Warrant, considered at the meeting on March 5, 1917, \$4000 was appropriated for the purpose of putting in two electrically driven centrifugal pumps; the idea being to use in addition the money derived from the sale of the oil engine and building on Bancroft Road. Owing to the very high cost of labor and material we found, after due consideration, that the total outlay was rapidly approaching \$8000, and as this amount greatly exceeded our appropriation, the majority of the Board did not feel that they could consistently go on with the work, and accordingly ordered the work on the pumps stopped, pending a reconsideration of the entire matter at the coming town meeting.

In the meantime we have obtained from the makers a substitute proposition, which would materially reduce the cost, and

will probably take care of the emergency, for it is a well-known fact that the oil engine at the pump station on Bancroft Road is in good condition, and will probably last for several years.

The plan now is to use the pump house as it stands, together with the oil engine, and in addition to put in one 5-inch double suction pump, together with a 30-horsepower General Electric Induction Motor, the cost of which is given us as \$1525.

The total expense, as near as we can determine, is \$2491, made up as follows:—

One 5-inch double suction pump	\$1525 00	
One 2-inch vertical Sump pump	366 00	
Foundation and extras	600 00	
	—————	\$2491 00

An article will be incorporated in the Warrant, in accordance with the above. (See Note.)

In making this recommendation we do not wish to withdraw from our original position — that a complete change-over is most desirable — and in normal times we should be inclined to follow the wishes of our citizens, as expressed at the meeting one year ago; however, the majority do not feel that the expenditure of \$8000 at this particular time is warranted, and realizing that the new equipment can be used in the reconstruction of the entirely new plant at some future date we make the recommendation as stated above.

THE WATER BONDED DEBT

The bonded debt of the Water System is \$159,000. There have been paid during the year 1917 \$10,000 of the 4% bonds and \$3000 of the 3½% bonds.

Of the above amount of indebtedness \$50,000 is redeemable by sinking funds which amount to \$36,217.99, and an appropriation of \$750 is asked for the Sinking Funds.

SEWER DEPARTMENT

Very little work has been done, because of the rapidly increasing cost, requiring a curtailment as far as possible.

The extension on Summer Street, as ordered by the State

Board of Health, and voted upon at the last town meeting, was made, and is already in use.

An extension for a short distance of 525 feet was also made on Abbot Street at the urgent request of the property owners of that section.

We recommend an appropriation of \$2500 for maintenance, which is the same amount as appropriated last year.

THE SEWER BONDED DEBT

The bonded debt of the Sewer System is \$105,000. Of the above amount of indebtedness \$40,000 is redeemable by sinking funds, which amount to \$22,497.02, and an appropriation of \$1000 is asked for the Sinking Fund.

HIGHWAY DEPARTMENT

It must be apparent to those who travel on our highways that practically all the streets radiating from the Centre are now in first-class condition, and every effort to attain permanency in road construction has had the consideration of the Board, particularly during the past year.

Before proceeding with new work it has been the practice to arrange, in so far as possible, to have sewer and water connections put in; underground drains, catchbasins, etc., installed, and thus prevent the tearing up, which in previous years has proved very costly to the town.

The rapidly increasing costs in labor and material have prevented the Board from doing all of the work originally planned for, although reference to the Superintendent's report will show that \$12199.06 was spent in reconstruction. This was done principally on Chestnut Street, Whittier Street and Central Street.

The average cost, including drains, catchbasins, etc., for the work above mentioned, is 1.127 per square yard, or, for road construction alone, .947 per square yard. While we realize that this is an advance over the previous year, a comparison with the figures reported by the State shows that we have obtained rock-bottom costs in so far as this is possible under present conditions.

To discontinue all new work because of existing conditions would result very seriously to the town.

First. It would be unfair to the citizens who have already contributed largely through taxation, and who have as yet failed to benefit from these improvements in their particular locality.

Second. During the past five years our Superintendent, together with his assistants, has received much experience, which materially reduces road construction costs from year to year, and to lose the services of these trained men, if only for a year, would be a step backward.

Third. To continue this work of reconstruction within certain bounds will bring us nearer to the time when every street within a mile, or possibly two miles, of the Centre, will be in first-class condition, and require very little expense for maintenance from year to year, except the cost of blanketing and possibly minor repairs, usually done in the spring of the year.

The problem of reaching the outlying districts is becoming more difficult each year. We are inclined to believe that this can only be accomplished by the use of auto trucks, for which a special appropriation will be asked when conditions warrant our doing so.

Surely a farmer who invests his money in property which necessitates his sending produce to markets at certain periods during the year, is entitled to a road over which he can travel without endangering the lives of his horses, and the loss of goods from which he gains a living.

Efforts have been made during the past year to induce some farmers in outlying districts to use their teams in making certain roads passable. The Board, however, has met with very little success, owing to the shortage of labor and the unwillingness of farmers to use their teams for purposes other than farming, particularly when required in planting and harvesting.

The Board hopes to do a certain amount of work in the villages during the coming year, and if the plan as now proposed, to use the stone-crusher, located at present in Indian Ridge section, can be put into effect, the cost of putting these roads in first-class condition should be materially reduced.

In addition, we should spend some money on Main Street, Abbot Street, Pearson Street, Andover Street (to Ballardvale), and possibly some others.

We recommend for maintenance and construction that the town appropriate the sum of \$35,000, together with all moneys obtained from railway franchise and excise taxes, together with the tax for street sprinkling.

LOWELL STREET

It is a well-known fact that the work has proceeded very slowly due to the small amount allowed at the last town meeting for this work; the same being practically one-half what was originally planned. In view of the work started on the Tewksbury end, it is very much desired that a larger appropriation be secured for this year, otherwise it will be several years before we can divert the travel which now follows the boulevard from Lawrence to Lowell, to the most direct route via Haggett's Pond.

SNOW REMOVAL

The cost to the town for the removal of snow has more than doubled during the past year, owing to the shortage of labor and the scarcity of horses available for this purpose.

SIDEWALKS

The deplorable condition of our sidewalks throughout the town has prompted the Board to expend more money during the past year than for several years previous. The improvements, however, are more or less permanent, and the costs should gradually decrease from year to year, after the work is once completed.

Some experiments have been made with granolithic walks, and when conditions return to normal these walks will undoubtedly be more in demand, particularly in the center of the town. We recommend the expenditure of \$2000 for sidewalks; \$1000 to be spent under the Betterment Act.

PARKS AND PLAYSTEADS

Little or no new work has been done during the past year, the chief attention of the Board being directed to the maintenance of the property now under the control of the town. We recommend the expenditure of \$1500 for Parks and Playsteads.

REMOVAL OF ASHES

In disposing of Article 8 at the meeting on March 5, 1917, the Board was ordered to investigate and make a report which is as follows:—

Twelve towns and cities were communicated with, and only four of the towns make a business of removing ashes from dwellings and business blocks.

The following is self-explanatory:—

	<i>Peabody</i>	<i>Melhuuz</i>	<i>Amesbury</i>	<i>No. Andover</i>	<i>Gardner</i>	<i>Norwood</i>
No. teams used						
Summer	2	1	1	1		1
Winter	2	*2	2	1		1
†When collected	Daily	Daily	Weekly	Weekly		Weekly
No. men employed	3	3 to each team				2
Area covered	105 streets	76 streets	all			11 sq. miles
No. of families served		1835	2000		1800	1500
Removed from what location	Sidewalk	Cellar	Sidewalk	Sidewalk		Sidewalk & Cellar
Amt. appropriated ('17)	\$3500		None	\$1200	\$600	None
Exp. to individual ('17)	None	None	5c per bbl.	None	None	‡12 tickets \$1.00
Total cost ('17)	\$3274.23	\$5000	**\$482.22		***\$600	\$304

*Fire Department horses are used to help out during the winter months.

†Although collections are made daily in some towns, only a certain number of streets are covered each day; the result being that ashes are seldom, if ever, removed from any one locality oftener than once a week.

‡2776 tickets collected during 1917.

**Does not include cost of town teams used.

***Cost covers removal of rubbish. Ashes used for filling, and removed at convenience of Highway Department; no record of cost kept.

It should be noted that the sale of tickets by the town of Norwood, at the rate of \$1.00 per dozen, did not cover the cost of removal for 1917.

The only favorable comment is in a report received from the town of North Andover. We quote as follows:—

“This is our second season for collection of ashes. The public is greatly benefited. These collections fill a long-felt want by our townspeople.”

The following towns do not collect ashes:

Belmont	Middleton
Clinton	Reading
Danvers	Wakefield
Ipswich	Winchester

In view of the difficulties in obtaining labor and teams, except at abnormally high rates, your Board is inclined to recommend that we defer action for a year or two on acceptance of any plan which will place the responsibility for removing ashes on the town. However, should the town take the opposite view, we believe that in the interest of all concerned the Board should be given full powers to make whatever rules are necessary, in order to make sure that the ashes are handled economically, and with as little discomfort to the travelling public as possible.

We also believe that the appropriation should be adequate to cover the cost and that the town be reimbursed by the sale of tickets to individuals who are benefited by the removal of the ashes.

FLOODING OF PLAYSTEAD DURING WINTER MONTHS

Under Article 9 the town voted, on March 5, 1917, to construct a gate to close the underground drain of the Playstead; the purpose being to provide a skating pond during the winter months, and appropriated the sum of \$100 therefor.

We found on investigating the matter, the possibility of such very serious damage to the Playstead so apparent that we were reluctant to proceed in carrying out the wishes of the town without further instructions, and as an experiment a gate

was constructed at a point where the underground drain enters the Playstead, thus flooding the field above.

Unfortunately, the cold weather came upon us earlier than was anticipated, and in consequence our skating-pond exists only in our imagination. The total cost of the gate being less than \$30, the appropriation remains untouched; the money being taken from the Park funds for this purpose.

Respectfully submitted,

BARNETT ROGERS
THOMAS E. RHODES
WILLIS B. HODGKINS
ANDREW McTERNEN
CHARLES B. BALDWIN

Board of Public Works

NOTE.—*High Service Pump Station*: Mr. Rhodes desires to be recorded as opposed to the plan approved by the majority.

REDEMPTION OF BONDS

	DR.		
To redeem Water Loans	No. 1 due 1920	\$10000 00	
	No. 2 " 1922	10000 00	
	No. 3 " 1923	10000 00	
	No. 4 " 1925	15000 00	
	No. 5 " 1928	5000 00	
Balance, January 1, 1917		\$34090 83	
Appropriation March 5, 1917		750 00	
Interest on deposits		1377 16	
		36217 99	

	CR.		
Water Loan Funds deposited			
Andover Savings Bank		8670 15	
Andover National Bank		27547 84	
		36217 99	

	DR.		
To redeem Sewer Loans	due 1919	10000 00	
	" 1928	30000 00	
Balance, January 1, 1917		\$19479 50	
Appropriation March 5, 1917		1000 00	
Assessments, 1917		1240 01	
Interest on deposits		777 51	
		22497 02	

	CR.		
Sewer Loans deposited			
Andover National Bank		22497 02	

BARNETT ROGERS
THOMAS E. RHODES
WILLIS B. HODGKINS
ANDREW McTERNEN
CHARLES B. BALDWIN

Examined, *Sinking Fund Commissioners*

NESBIT G. GLEASON
JOHN S. ROBERTSON
W. H. COLEMAN

Auditors

SUPERINTENDENT'S REPORT

To the Board of Public Works.

GENTLEMEN:— I herewith submit my report for the year ending December 31, 1917, making the twenty-ninth annual report of the Water System, the twenty-first report of the Sewer System, and the fifth report of the Highways and Parks, under your supervision.

WATER DEPARTMENT

The year 1917 passes with no new mains laid at all; the prices having advanced double, and they are still higher now than a year ago, the cost of iron pipe being at present \$56.00 a ton, against a price of \$23.50 in 1916; lead being 12 cents a pound, against 4 7-8 cents in 1916. Therefore the present plant on December 31, 1917, is as follows:—

Total length of main pipe	51.19 miles
Number of hydrants	377
Number of public buildings	15
Number of fountains	8
Number of standpipes	10
Number of fountains at park	3
Number of private hydrants	34

SERVICE PIPES

Applications received were thirteen, and of these only eleven were laid. The number of feet laid by the town, 251.1; laid by

property owners, 392; relaid, 7 — making a total on December 31, 1917, of 117,295 feet.

610 cement lined

857 lead lined

36 all others

1503 total, or 117,295 feet

METERS

There were set during the year 1917 twenty-one new meters, making a total of 1311 now in use, in size from 5-8 inch to 3-inch inclusive.

PUMPING PLANTS

Haggett's Pond Station during 1917 was run 365 days; ninety days of which the oil engine was used, pumping 52,755,900 gallon in 1399 hours and 22 minutes, and using 7069 gallons of fuel oil, at 8 cents per gallon.

The steam plant was used 275 days, pumping 165,138,223 gallons, and consuming about 245 tons of coal; the daily average for 1917 being 594,230 gallons per day. The average hours this year have been a little longer than in 1916, because the revolutions have been cut down, making it necessary to work a little longer than in the past, but this has been a saving on the machinery.

The following table will be according to Engineer's Sheet:—

Days	Hours	Gallons pumped	Oil	Coal	Average day
365	372740	217894123	7069 gals.	245 tons	594230

The station on Bancroft Road has run during the past year on Monday, Wednesday and Friday of each week, as well as Saturday forenoon, or about thirty hours each week. This station is now run on kerosene instead of fuel oil.

WATER METERS

Water meters have been installed during 1916 and 1917 on every service pipe put in, and on a great many more places they

should be set; but according to our rules they are let off by having only one faucet at the sink. Meters are a great benefit to a city or town, as the rise in our receipts shows the last year or two.

RECEIPTS

BILLS	Maintenance	Service pipe	Totals
Various parties, service pipe and meters		\$777 52	\$777 52
Various parties, repairs, labor and stock	442 30	323 04	765 34
Totals	\$442 30	\$1100 56	\$1542 86
Water rates			24780 82
Credits paid Town Treasurer			26323 68
Water rates		\$24780 82	
Pipe account		1542 86	
		\$26323 68	\$26323 68

The advanced price of coal, labor, oils, packing, etc., will mean that the Water Department will need the coming year for maintenance \$13,500, to be divided as follows:—

Coal and oils	\$4110.00
Salaries and labor	7405 00
Keeping one horse	364 00
Miscellaneous repairs	1621 00
	—————\$13500 00

Service pipe same as 1917 — \$1800.00.

SEWER DEPARTMENT

Main sewers were laid on Abbot Street and Summer Street. The one on Abbot Street was laid from bond money, while the one on Summer Street was a special appropriation, Article 15, of \$3000.00 at the last town meeting.

The Abbot Street sewer was a distance of 525 feet of 6-inch pipe. This work was started in June and finished in July, at a cost of \$1305.49 — or \$2.48 per foot. The cut at Phillips Street end was 12 feet deep, and at the other end only 4 feet. A great deal of water was found to handle. The Summer Street job was a distance of 1409 feet, and cost \$2601.16, or about \$1.84 a foot.

Sewer applications have been 67, and 67 already have been laid, making a total of 733 now in use. The 67 laid amounted to 4773 feet of Akron pipe and iron, at an average cost of 66 cents per foot. Total feet, December 31, 1917, 51,147.

The same appropriation will be necessary for Sewer Maintenance, to be divided as follows:—

Power	\$1000 00
Labor	1200 00
Miscellaneous	300 00
	<hr/>
Total	\$2500 00

FRANK L. COLE,
Superintendent

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1917	Total Cost of Construction
Office Fixtures				\$ 561 75
Telemeters				1311 63
Telephones				184 77
Teams				583 65
Pipe Distribution				254405 02
Service Pipe	\$2555 09	\$1100 56	\$1454 53	26548 52
Water and Land Damage				6687 23
Suction Pipe				1309 46
Reservoirs				16985 82
Coal Shed				806 97
Grading Land				1739 12
Workshop				1271 88
Building & Pumping Station				9610 14
Pumping Plants			1431 93	45833 76
Construction Expenses				9406 21
Tools	34 90		34 90	3535 64
Maintenance	11980 56	442 30	11538 26	
Totals	\$14570 55	\$1542 86	\$14459 62	\$380781 57

SUMMARY COST OF CONSTRUCTION

SEWER DEPARTMENT

Sewer Main in feet	46040		
Number of Filter Beds		28	
Number of Sludge Beds		3	
Cost to Abutters			\$124519 78
Cost to Town			127358 05
Totals	46040	31	\$251877 83
Includes A. V. Sewer			

EXPENDITURES

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT				Grand Totals
	Maintenance	Construction	Total	Maintenance	Construction	House Connection	Total	
Payrolls	\$6178 61	\$698 39	\$ 6875 00	\$ 925 32	\$5781 61	\$2017 91	\$8724 84	\$15599 83
New England Tel. & Tel. Co.	157 19	14 70	171 89					171 89
Boston & Maine, freight	58 21	7 60	65 81		119 46		130 82	196 63
Standard Oil Co., oil	320 80	30 50	351 30					351 30
Andover Press, supplies	109 38	2 10	111 48	5 90			5 90	117 38
Neptune Meter Co., supplies and meters	71 43	327 20	398 63					398 63
Pittsburg Meter Co., supplies and meters	6 92	152 00	158 92					158 92
Thomson Meter Co., meters and supplies	24 14		24 14					24 14
Hersey Meter Co., supplies	12 83		12 83					12 83
National Meter Co., supplies	14 90		14 90					14 90
Walter I. Morse, supplies	68 79	34 90	103 69	75 79			75 79	179 48
Carfare, postage	144 24	26 14	170 38		22 61		22 61	192 99
P. J. Daly, grain	43 00		43 00					43 00
H. B. McArdle, supplies	4 15	12 40	16 55					16 55
Dr. P. J. Look, services	6 00		6 00					6 00
Lawrence Gas Co., gas and electricity	4 95	2 29	7 24	578 03	655 00		1233 03	1240 27
Frank E. Whiting, repairs	2 50		2 50					2 50
Smart & Flagg, bond	3 00		3 00	20 00			20 00	23 00
Boston Coupling Co., supplies	9 70		9 70					9 70
Cutler Dickie Co., supplies	15 00		15 00					15 00
Rensselaer Valve Co., supplies	37 00	323 30	360 30					360 30
Tyer Rubber Co.	12 00		12 00	17 68			17 68	29 68
Myerscough & Buchan	46 79		46 79				31 16	77 95
Wright's Express	4 85		4 85					4 85
American Express	8 88		8 88	86			86	9 74
Andover Coal Co.	205 20		205 20					205 20
Merrimac Boiler Works	42 42		42 42					42 42

	1 35	4 93	6 28
Frank E. Davis	113 56		113 56
Waterworks Equipment Co.	733 13		733 13
Vacuum Oil Co.	41 09	4 28	45 37
Worthington Pump Co.	37 20	27 90	65 10
John L. Morrison	6 00		6 00
T. F. Morrissey & Son	60 02	8 51	68 53
Buchan & McNally	18 30		18 30
Samuel Smith Machine Co.	17 38		17 38
Sherman Envelope Co.	65		65
George E. Winslow	6 00		6 00
James S. May	54 45		54 45
Ludlow Valve Co.	52 50		52 50
Joseph Bordelais, teaming coal	2195 94		2195 94
Cross Coal Co.	14 87		14 87
William J. Doherty	9 71		9 71
Rumsey Pump Co.	155 95		155 95
Curry Bros., supplies	53 06	42	53 48
J. H. Campion	1 20		1 20
H. J. Stanchfield	15 00		15 00
Queen Grey Co.	6 20		6 20
Gray & Kendall	643 68		643 68
Gulf Refining Co.	7 80	7 71	15 51
Bride Grimes Co.	2 50	75	3 25
Crowley & Co.	4 20		4 20
E. A. Marks	44 39		44 39
J. H. Richardson	4 00		4 00
John A. Riley	66 50		66 50
Fred T. Ley Co.	1 05		1 05
C. A. Hill & Co.	4 10		4 10
W. H. Coleman	633 79		633 79
Lead-lined Iron Pipe Co., pipe	52 00		52 00
A. W. Chesterton & Co.	37 65		37 65
Anderson & Bowman	72 05		72 05
H. Mueller Mfg. Co.	11 14		11 14
Chadwick Boston Lead Co.			

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT				Grand Totals
	Mainte- nance	Construc- tion	Total	Mainte- nance	Construc- tion	House Connec- tion	Total	
Smith & Dove		7 11	7 11		245 85		245 85	252 96
John Franklin		29 00	29 00	162 00	45 85		207 85	236 85
O. F. Kress		14 00	14 00					14 00
A. M. Colby		28 00	28 00					28 00
F. E. Dodge		17 13	17 13					17 13
Andover National Bank				5 00			5 00	5 00
Harold L. Bond				63 33	14 20		77 53	77 53
Arco Rubber Co.				41 22			41 22	41 22
Bryne and Archilles Co.				100 00			100 00	100 00
Burnham Motor Co.				150 00		64 00	214 00	214 00
Smith & Manning				140 78	40 75	33 67	215 20	215 20
Lawrence Machine Co.				50 00	44 50		94 50	94 50
Philip Hardy				75 99	95 05		171 04	171 04
George Brown				30 00			30 00	30 00
Portland Stoneware Co.					939 42	90 00	1029 42	1029 42
Lawrence Rubber Co.					4 00	1 25	5 25	5 25
Frank Dodge					121 41	14 50	135 91	135 91
George L. Gage						18 00	18 00	18 00
J. E. Pitman					70 70		70 70	70 70
Anglo Saxon Supply Co.					85 26		85 26	85 26
P. F. McDonald, supplies					27 36		27 36	27 36
Puritan Iron Works, manhole cover					168 00		168 00	168 00
John C. Collins					1 80		1 80	1 80
George Smith, land damage					10 20		10 20	10 20
Barnett Rogers, recording deeds					1 70		1 70	1 70
	\$11980 56	\$2589 99	\$14570 55	\$2506 11	\$8557 54	\$2250 69	\$13314 34	\$27884 89

COMPARATIVE STATISTICS

JANUARY 1, 1918

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total mainte- nance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 3106 38	2999 99	1776 21	52 85	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	40 77	25 53	68 42	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	36 42	23 13	73 46	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 2	38 31	28 47	71 27	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	37 32	26 87	71 81	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	3151 33	37 47	20 71	78 79	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2557 61	37 67	20 71	69 61	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	32 33	19 38	68 78	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	31 21	19 24	65 45	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	33 07	21 25	71 78	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	45 44	19 59	51 00	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	40 59	25 63	100 01	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	55 52	21 96	86 89	118 031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	44 25	20 84	81 98	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 03	20 87	75 60	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	45 39	17 29	76 48	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	3054 09	33 34	19 94	75 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	39 52	19 97	79 41	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	36 96	19 55	81 16	187,750,372	1101	884	257	35.22
1909	16407 21	7499 95	3967 72	36 50	18 50	76 93	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	39 21	17 62	91 03	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 58	17 48	95 99	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	36 84	19 58	96 58	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	43 86	18 86	83 47	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	42 49	18 55	93 32	234,973,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	46 67	21 91	94 02	†240,599,178	1465	1262	369	50.08
1916	23496 87	†11998 60	4842 20	52 95	25 06	113 72	†220,945,880	1492	1290	377	51.19
1917	24780 82	11538 26	5460 42				†217,894,123	1503	1311	377	51 19

*Regulations and rates changed.

†No allowance for slippage.

‡Chestnut St. 8 in. main, \$1,684.26

HIGHWAYS AND PARKS

To the Board of Public Works.

GENTLEMEN:— I herewith submit the fifth annual report of the Highway Department for the year ending December 31, 1917.

The first work of the year was the snow of January 3rd, and from then to March 2nd we tried to keep the snow removed and the sidewalks sanded. On April 1st we started a few men on cleaning gutters. This work lasted about three weeks.

Ashes were used this year on Highland Road; also on Burnham Road, Chestnut Street, High Street, Railroad Street, Washington Avenue, River Road, Webster Street, and Abbot Street.

After the gutters were cleaned we started a few small repairs, such as replacing old, broken-down culverts with new corrugated pipe. While this work was being done there was another gang of men getting out sand, and teams hauling to the different streets, getting ready for the blanketing coat of Tarvia B, which is used now instead of the water-carts. This blanketing all completed, the new work started on June 11th on Chestnut Street, and was completed on July 23rd — 4051 yards of new road being built from Main Street to the brook near the residence of Mr. George Holt, at a cost of \$4190.22, or \$1.03 per square yard, including curbing, catchbasins, corrugated pipe, labor, etc., or for road construction only 89 cents per square yard.

WHITTIER STREET

We started on July 23rd and finished August 6th — 2975 yards. This was a Tarvia-bound road, and cost \$3505.34, or \$1.17 per yard for all material used, such as catchbasin, curbing, pipe for drains, etc. For stone, Tarvia, and labor, road work only, a cost of \$1.00 per square yard. This connected Chestnut Street with Elm Street by a Tarvia road.

On August 7th we started getting sand again, to blanket that part of Lowell Street that was built in 1915, 1916, which was

completed, and work started on the 1917 contract for Lowell Street on August 14th, and was completed on October 9th, with 4600 yards more of work done on Lowell Street. This started near the residence of Mr. Granville Cutler at Station 5300. The contract called for work to stop at Station 7200, but we were able to do 300 feet more of 18-foot road than called for, so we stopped at Station 7500, near the last gate of the cemetery. This work was looked after and done by the Massachusetts Highway Commission Engineer, Mr. Delano, and your Superintendent. The cost of the job was \$7442.51, which was divided equally between State, County and Town. I would say asphalt was used this year instead of Tarvia. This is the first time this kind of material has been used on this road, and while it cost a little more, the wearing of the road will be watched. At the rate we are building this road it will take from six to eight years to finish it, and then, according to reports, the State intends taking it over. I think steps should be taken to have the State take it over at once. While we had only \$2500.00 this year on our end of the work, Tewksbury, who has started their end going from Andover line to Lowell, spent about \$20,000.00, or \$6000.00 to \$7000.00 apiece, Town, State, and County building about one mile.

On October 10th work was started near the residence of Mr. Jones on Central Street, and finished at Lupine Road on November 10th; there being done 4028 square yards of Tarvia road, at a cost of \$4772.36. This included curbing, cutting hill drain, and all work done on road — or \$1.18 per yard, while the road work only cost 95 cents per yard.

There were 785 feet of curbing set on the hill, two catchbasins built, and 110 feet of 10-inch drainpipe used.

A small job was done by the Town and State together on Main Street, near the residence of Mr. George Chandler. The cost of this work was \$393.61, one-half of which the State paid. This was allowed to remain in a bad condition longer than I wished, but nobody was to blame, as the State held us up on this work for a long period.

OILING STREETS

There was only one car of oil used this year; Tarvia B and sand being used now on all good roads.

ASHES

Ashes were used on a great many different streets, as I reported before. They are being used on the back streets a great deal, and I would recommend they be either oiled or have a light coat of Tarvia for a binder. These ashes should be well rolled, wet, and rolled again, and then they will last for years with a very little attention, if blanketed with some material for a binder. The ashes on Webster Street and the River Road were not rolled this year, because the roller was caught in the early winter on Abbot Street and could not get up there, but it is my intention to send the roller there the first thing this spring, as well as more ashes.

SIDEWALKS AND CURBING

Work has been done on High Street, resurfacing both sides; also Main Street, Elm Street, Abbot Street, Bartlet Street, Salem Street, Highland Road, and School Street all have had some resurfacing, as well as fifteen driveways, put in so as to make the roadway and sidewalk as nearly equal as possible.

New walks have been built on School Street, near the residence of Mr. George Selden, and in front of Abbot Academy property now occupied by Judge Mahoney. Part of this work was granolithic.

A new walk on Whittier Street was done granolithic.

A retaining wall and new walk were built on Highland Road, from William Watson's to the end of the wall by J. N. Cole's — a distance of about 430 feet of 6-foot walk.

New walks were built in Abbott Village district; on Essex Street from railway station to end of street; on east side; on west side, from Brackett's store to Smith & Dove's Hall; on Red Spring Road, from Henderson's to Smith & Dove's last house, top of hill; Cuba Street, a distance of 141 feet; on Shawsheen Road, from end of walk by boarding-house to end of Smith &

Dove property by Brechin Terrace; on Red Spring Road from river past mill gate to end of dry-shed.

Curbing was set on Central Street, 785 feet; on Red Spring Road, 953 feet; on Essex Street, 886 feet; on Cuba Street, 141 feet; on Shawsheen Road, 282 feet, total 3047 feet, as well as on Chestnut Street corners, where new street was built — Whittier Street as well.

DRAINS

Catchbasins have been added on Chestnut Street, Whittier Street, Central Street, Lowell Street, Abbott Village, as well as pipe laid to carry the water away to its natural courses.

BALLARDVALE

Work done by Mr. John Haggerty in Ballardvale section during 1917 consists of cleaning gutters and catchbasins throughout the village; also scraping and dragging. Laid about 700 feet of cement curbing, built new catchbasins; used two carloads of dust on different sidewalks; also had walks resurfaced and some new work done. Amount spent in Ballardvale district covered by Mr. Haggerty and his men, \$2700.00.

PARK DEPARTMENT

Ordinary work, such as care of parks, playsteads, Boulders, etc.; as well as burning leaves in the fall is all the park work this year.

Appropriation March 5, 1917	\$1500 00
Expenditure—bills and payrolls	1279 06
	<hr/>
Balance	220 94

HIGHWAY EXPENDITURES, 1917

NAMES

	Maintenance	Construction	Snow	Drains	Side-walks	Lowell Street	Totals
Payrolls	\$ 9471 60	\$ 4092 49	\$2919 05	\$ 75 20	\$ 35 05	\$3431 27	\$20024 66
New England Tel. & Tel. Co.	24 44	39 16				5 18	68 78
Boston & Maine	224 65	750 28		3 46	58 17	645 01	1681 57
Buchan & McNally	2 61	13 26					15 87
New England Culvert Co.		52 00		437 68			489 68
Morrison & O'Connell	66 70	17 50	22 40		29 40		136 00
Hanscom Construction Co., bridge		25 00					25 00
Charles Torrey, bridge		13 20					13 20
J. E. Pitman, fences and bridge	379 62	140 69		286 65		78 59	598 90
George L. Gage, pipe				192 93			286 65
Portland Stoneware Co., pipe				58 50			192 93
M. O'Mahoney Est., pipe				262 50		30 00	58 50
Puritan Ironworks, catchbasin covers				117 22	15 18		292 50
Frank E. Dodge	18 85			236 21		58 25	151 25
Philip Hardy	121 27					1420 59	416 73
Winchester Rock Co.	350 52	1684 50			32 95		3488 58
John C. Collins	110 40	1379 94			786 90		2277 26
H. E. Fletcher, curbing	400 42	323 63			1000 00		1724 03
W. F. Duffee & Co., sidewalks and curbing	58 18				5703 33		5761 51
Standard Oil Co.						1186 25	1186 25
Myerscough & Buchan	137 26	149 53				36 98	323 77
Town of Andover, Highway Department						474 83	474 83
Granville Cutler, gravel						42 75	42 75
Dan Barbarian, gravel						24 45	24 45
Arthur O'Hara, gravel						8 40	28 08
Tyer Rubber Co.	19 68						64 40
Andover Coal Co., coal	35 04	29 36					549 46
Barrett Mfg. Co., tarvia	22 65	526 81					5321 52
Cross Coal Co., coal	2934 73	2386 79					74 00
Buffalo Steam Roller Co., repairs	40 00	34 00					41 53
Treat Hardware Co.	33 88	7 65					29 96
Anderson & Bowman	22 48	7 48					112 50
Harry Eames	103 20	9 30					207 84
Pacific Mills, ashes	207 84						2225 25
	2197 25	28 00					

Standard Oil Co.		97 50
H. J. Stanchfield		5 00
Poor & Riley	22 88	30 73
Arden Farm, wood		9 75
John Franklin	94 50	179 50
Walter I. Morse	21 63	253 99
Ames Plow Co.		28 90
W. F. Law, teaming		5 25
American Express	4 75	6 14
H. I. Dillon & Co.		16 50
A. M. Colby		25 55
Smith & Dove Co.	6 30	6 30
Lawrence Gas Co.	3 21	3 21
Gray & Kendall	21 15	21 15
P. J. Daly	43 75	43 75
Dr. J. F. Winchester	9 00	9 00
Andover Press	14 20	14 20
W. J. Doherty	64 45	64 45
Vacuum Oil Co.	14 88	14 88
Herbert Clark	4 75	4 75
Massachusetts Highway Commission	5 00	5 00
Waterman & Leavitt	62	62
Fred Smith, hay	36 84	36 84
Elmer Conkey, sand	7 65	7 65
T. A. Holt Co., grain and oil	117 40	117 40
J. H. Campion, grain and oil	105 13	105 13
Smith & Manning, grain and oil	71 19	71 19
R. Hardesty	3 15	3 15
Allen F. Abbott, fence	398 80	398 80
Crowley & Co.	2 42	2 42
Merrimac Boiler Works	17 05	17 05
Sam Smith Machine Co.	1 50	1 50
Fire Department	1096 30	1096 30
W. H. Coleman	29 14	29 14
Headly Good Roads Co.	78 34	78 34
Helen Tweedle	5 00	5 00

NAMES	Mainte- nance	Con- struction	Snow	Drains	Side- walks	Lowell Street	Totals
Bride Grimes Co.	2 30						2 30
James May	8 40						8 40
C. A. Hill & Co.	25						25
Frank Hardy, brush	13 50						13 50
Thomas Peters, sand	92 25						92 25
Roy Haynes	5 32						5 32
Jane Devlin, gravel	2 55						2 55
Porter Livingston, gravel	5 60						5 60
Bridget O'Brien, fence	10 00						10 00
Frank L. Cole	4 00						4 00
Shattuck Brothers	2 60						2 60
D. Donovan & Sons	35 20						35 20
Daniel A. Collins	1 00						1 00
Robert A. Watson	6 90						6 90
Alden Speare Co., oil	542 10						542 10
O. F. Kress & Son	14 70						14 70
J. H. Richardson, hay	34 27						34 27
Shawmut Chemical Co.	15 00						15 00
Mrs. N. F. Flint, gravel	11 55						11 55
Phillips Academy, ashes	5 25						5 25
	\$20222 54	\$12199 06	\$2940 65	\$1670 35	\$7660 98	\$744251	\$52136 09

FINANCIAL STATEMENT

Appropriation March 5, 1917

Highway Department	\$36500 00
Sprinkling	1876 46
Lowell Street	2500 00
Massachusetts Highway Commission	2480 84
Essex County	2480 84
Credits	2897 61

\$48735 75

Overdrawn	3400 34
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Total Expenditures	\$52136 09
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Expenditures

Maintenance	\$20222 54
Construction	12199 06
Snow	2940 65
Drains	1670 35
Sidewalks and curbing	7660 98
Lowell Street	7442 51

	\$52136 09	\$52136 09
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Overdrawn, shown by Town Treasurer not receiving the Franchise or Excise Tax.

TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1918

ANDOVER, MASS.
THE ANDOVER PRESS
1919

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TOWN OFFICERS, 1918

Selectmen, Assessors and Overseers of the Poor

HARRY M. EAMES, <i>Chairman</i>	Term expires	1920
CHARLES BOWMAN	" "	1921
WALTER S. DONALD, <i>Secretary</i>	" "	1919

Town Clerk

GEORGE A. HIGGINS

Tax Collector

*JOHN W. BELL

Town Treasurer

GEORGE A. HIGGINS

School Committee

MARY B. SMITH	Term expires	1919
FREDERIC G. MOORE	" "	1919
PHILIP F. RIPLEY	" "	1919
ALFRED E. STEARNS	" "	1920
GEORGE A. CHRISTIE	" "	1920
EDWARD C. CONROY	" "	1920
EVERETT C. HILTON	" "	1921
MARY W. FRENCH	" "	1921
DAVID R. LAWSON	" "	1921

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

BARNETT ROGERS	Term expires	1919
CHARLES B. BALDWIN	" "	1919
THOMAS E. RHODES	" "	1920
PHILIP L. HARDY	" "	1921
ANDREW McTERNEN	" "	1921

*Deceased

Superintendent of Water, Sewer Department, Highways and Parks

FRANK L. COLE

Engineers of Fire Department

WALTER I. MORSE, *Chief* WALTER H. COLEMAN, *Clerk*
JOHN A. RILEY

Board of Health

FRANKLIN H. STACEY	Term expires	1921
CHARLES E. ABBOTT, M.D.	" "	1919
BANCROFT T. HAYNES	" "	1920

Chief of Police

FRANK M. SMITH

Constables

GEORGE W. MEARS	Term expires	1919
FRANK M. SMITH	" "	1919
THOMAS F. DAILEY	" "	1919

Trustees of Memorial Hall Library

NATHAN C. HAMBLIN	Term expires	1921
GEORGE F. SMITH	" "	1922
ALFRED E. STEARNS	" "	1923
BURTON S. FLAGG	" "	1924
E. KENDALL JENKINS	" "	1925
REV. FREDERICK A. WILSON	" "	1919
FREDERIC S. BOUTWELL	" "	1920

Trustees of Punchard Free School — Terms expire 1919

SAMUEL H. BOUTWELL	HARRY H. NOYES
MYRON E. GUTTERSON	HARRY M. EAMES
FRANK T. CARLTON	

Auditors

JOHN S. ROBERTSON WALTER H. COLEMAN
NESBIT G. GLEASON

Trustees of Cornell Fund

CHARLES N. MARLAND	Term expires	1919
JOHN C. ANGUS	" "	1920
DR. WILLIAM D. WALKER	" "	1921

Superintendent of Moth Department

JOHN H. PLAYDON

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

CHARLES W. CLARK	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees of Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
GEORGE D. MILLETT	WARREN L. JOHNSON
FRED E. CHEEVER	*JOHN W. BELL
JOHN W. STARK	

*Deceased

TOWN MEETING

Annual Town Meeting March 4, 1918

COMMONWEALTH OF MASSACHUSETTS

ESSEX, SS.: To either of the Constables of the Town of Andover, GREETING:

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs, to meet and assemble at the Town House, in said Andover, on Monday, the fourth day of March, 1918, at 6 o'clock A.M., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, one Trustee of Cornell Fund for one year (to fill vacancy), two Trustees of Spring Grove Cemetery for one year (to fill vacancies), Fence Viewers, Pound Keeper, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall Licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall

Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School, and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will vote to extend the Water System from its present terminal on Lowell Street a distance of 5600 feet to Brown Street, then 3900 feet on Brown Street, on petition of Charles W. Livingston and others, and appropriate the sum necessary for same.

Article 5.—To see if the town will vote to place an electric light on Lincoln Street between Fred McCollum's and James Magee's and appropriate a sum of money therefor, on petition of Arthur O'Hara and others.

Article 6.—To see if the town will appropriate the sum of \$2000 for additions to the filter-beds, as ordered by the State Board of Health, on petition of the Board of Public Works.

Article 7.—To see if the town will appropriate the sum of \$2500 for the purpose of installing a 5-inch double suction pump, together with a 30-horsepower motor, and accessories, in the Pump Station on Bancroft Road, on petition of the Board of Public Works.

Article 8.—To see if the town will affirm its vote at the annual meeting of 1917, whereby it appropriated \$4000 for the construction of a two-unit pumping plant within the reservoir circle off Bancroft Road and appropriate an additional sum of \$1000 to be added to the unexpended balance of the \$4000 appropriated; also to grant the Board of Public Works a sufficient sum from the Water Bonds, necessary to extend the water-main from the proposed pumping plant to a point near the present pumping plant on Bancroft Road, on petition of T. E. Rhodes and others.

Article 9.—To see if the town will appropriate the sum of \$2500 for widening Essex Street Bridge over Shawsheen River, on petition of the Board of Public Works.

Article 10.—To see if the town will appropriate a sum of money not exceeding \$5000, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 11.—To see if the town will vote that citizens of the town in the National War Service and those hereafter engaged in the service shall be assessed for, but shall be exempt during the war, from paying a polltax, upon petition of Fred G. Cheney and others.

Article 12.—To see if the town will grant the use of the Engine House Hall in Ballard Vale to the Ballard Vale Village Improvement Society, and appropriate a sum of money sufficient to put it in proper condition for use for public gatherings, on petition of William Shaw and others.

Article 13.—To act on any amendments to the Building Laws passed at the Annual Town Meeting of 1917, which may be offered by the Committee to meet the requirements of the Attorney General.

Article 14.—To see if the town will vote to amend its By-Laws by inserting under Article 4 thereof sections to be numbered 12, 13 and 14.

Section 12.—The Selectmen may, as provided by Chapter 102 of the Revised Laws of Massachusetts and amendments thereto, license suitable persons to be junk collectors, to collect, by purchase or otherwise, junk, old metals, and second-hand articles from place to place within the limits of the Town of Andover and may revoke such licenses at pleasure; and any place, vehicle or receptacle used for the collection or keeping of the articles aforesaid may be examined at all times by the Selectmen, or by any person by them authorized so to do.

Section 13.—A license for the collection of junk shall not be granted to any person who is not a citizen of the United States unless such person shall have declared his intention to become a citizen of the United States.

Section 14.—A license shall be granted and issued only to such persons as have resided in the town of Andover for one year next preceding the date of application.

A license fee of not less than five (\$5.00) dollars must be paid to the Town Clerk at the time of making application for such license, and in the event that the license is not granted the Town Clerk shall refund to the applicant the amount deposited.

Article 15.—To fix the pay of the firemen for the ensuing year.

Article 16.—To determine the method of collecting the taxes for the ensuing year.

Article 17.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 18.—To determine what disposition shall be made of unexpended appropriations.

Article 19.—To act upon the report of the Town officers.

Article 20.—To determine the amount of money to be raised by taxation the ensuing year.

Article 21.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock A.M., and may be closed at 2 o'clock, P. M.

And you are directed to serve this Warrant by posting attested copies and publication thereof seven days at least before the time of said meeting, as directed by the By-Laws of the town.

Hereof fail not and make return of this Warrant with your doings thereon at the time and place of said meeting.

Given under our hands this sixteenth day of February, A. D. 1918.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

ANDOVER, MARCH 4, 1918

ESSEX, SS.

Pursuant to the foregoing warrant, I the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH

Constable

ANNUAL TOWN MEETING, MARCH 4, 1918

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Monday, the fourth day of March, 1918, at six o'clock in the forenoon, agreeably to the requirements of the foregoing warrant, Moderator Alfred L. Ripley presided and after reading a part of the warrant, it was

Voted, To dispense with the further reading of the warrant.

Voted, To take up Articles 1 and 2 together.

Voted, That the polls be closed at 2 o'clock p.m.

Took up Articles 1 and 2 and proceeded to vote for Town Officers and on the Liquor License question by the Australian Ballot System.

The ballot box was found to be empty and registered 0000. The polls opened at six o'clock a.m., and closed at two o'clock p.m., as voted. The total number of ballots cast was 1004, sixty-eight (68) of which were female ballots for School Committee only.

The result of the balloting was as follows:—

MODERATOR—One year:

Alfred L. Ripley	756
Blanks	180

TOWN CLERK—One year:

George A. Higgins	724
Blanks	212

TOWN TREASURER—One year:

George A. Higgins	698
Blanks	238

SELECTMEN—Three years:

Charles Bowman	639
Louis G. Buck	82
Gordon R. Cannon	189
Blanks	26

ASSESSORS—Three years:

Charles Bowman	630
Louis G. Buck	85
Gordon R. Cannon	189
Blanks	30

COLLECTOR OF TAXES—One year:

John W. Bell	738
Blanks	198

SCHOOL COMMITTEE—Three years:

Ralph W. Coleman	398
Mary W. French	475
Everett C. Hilton	449
David R. Lawson	427
Addison B. LeBoutillier	318
Walter H. Thompson	317
Blanks	628

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION—

Three years:

Philip L. Hardy	612
Willis B. Hodgkins	328
Andrew McTernan	591
Blanks	341

BOARD OF HEALTH—Three years:

Franklin H. Stacey	676
Blanks	260

AUDITORS OF ACCOUNTS—One year:

Walter H. Coleman	679
Nesbit G. Gleason	711
John S. Robertson	730
Blanks	688

CONSTABLES—One year:

Thomas F. Dailey	677
George W. Mears	641
Frank M. Smith	700
Blanks	790

TRUSTEE OF MEMORIAL HALL LIBRARY—Seven years:

E. Kendall Jenkins	710
Blanks	226

TREE WARDEN—One year:

Edward H. Berry	714
Blanks	222

Shall Licenses be granted for the sale of intoxicating liquors in this town?

Yes	274
No	605
Blanks	57

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF PRECINCT CLERK

ANDOVER, MASS, March 4, 1918

Polls open at 6 a.m. Voted to close polls at 2 p.m. Ballot box registered when open 0000. Ballot box registered when closed 1006. Number of male ballots received 1650. Number of female ballots received 215. Number of male voters voted 936. Number of female voters voted 68. Number of votes cast 1004. Number of male ballots returned 724. Number of female ballots returned 147.

DANIEL A. COLLINS, *Clerk*

The Moderator declared:

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Charles Bowman elected Selectman for three years.

Charles Bowman elected Assessor for three years.

John W. Bell elected Collector of Taxes for one year.

Mary W. French elected School Committee for three years.

Everett C. Hilton elected School Committee for three years.

David R. Lawson elected School Committee for three years.

Philip L. Hardy elected to Board of Public Works and Sinking Fund Commission for three years.

Andrew McTernan elected to Board of Public Works and Sinking Fund Commission for three years.

Franklin H. Stacey elected Board of Health for three years.

Walter H. Coleman elected Auditor of Accounts for one year.

Nesbit G. Gleason elected Auditor of Accounts for one year.

John S. Robertson elected Auditor of Accounts for one year.

Thomas F. Dailey elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

E. Kendall Jenkins elected Trustee of Memorial Hall Library for seven years.

Edward H. Berry elected Tree Warden for one year.

Chose Trustee of Cornell Fund — Dr. William D. Walker for three years.

Chose Trustee of Cornell Fund — Charles N. Marland for one year to fill vacancy caused by death of Allan Simpson.

Chose two Trustees of Spring Grove Cemetery for one year to fill vacancies caused by deaths of John L. Smith and Felix G. Haynes — Fred E. Cheever, John W. Stark.

Chose Fence Viewers for one year — James Saunders, Raymond L. Buchan, George W. Mears.

Chose Street Lighting Committee (appointed by Moderator) — Walter H. Coleman, Colver J. Stone, Edwin E. Perry, Henry J. Gardner, Joseph L. Burns.

Chose Finance Committee for one year (appointed by Moderator) — George Abbot, Samuel H. Boutwell, John H. Campion, Walter M. Lamont, Chester W. Holland, Henry W. Barnard.

Town Pound — *Voted*, That Town Barn and Barnyard be the Town Pound and that the Superintendent of the Town Farm be the keeper.

Took up Article 3.

Voted — To appropriate the following stated sums of money:—

Almhouse Expenses	\$4500.00
Almhouse repairs	300.00
Relief out of Almshouse	4300.00
Aiding Mothers with Dependent children	500.00
Board of Health	1500.00
Brush Fires	600.00
Fire Department	9400.00
Hay Scales	125.00
Highway Department, sidewalks, snow	25000.00
(Sidewalks — \$1000 to be spent under Betterment Act, but if no applications are received prior to August 1st, it shall be at the disposal of the Board of Public Works)	
Insurance	2000.00
<i>Amount carried forward</i>	<hr/> 48225.00

<i>Amount brought forward</i>	48225.00
Insurance (Workmen's Compensation)	1600.00
Interest	17000.00
Memorial Hall Library	1800.00
Memorial Day	350.00
Post 99, G. A. R.	100.00
Miscellaneous	3000.00
Parks and Playsteads	1500.00
Police	4500.00
Printing and Stationery	1400.00
Public Dump	75.00
Retirement of Veterans, Acts of 1912	300.00
Redemption of Water Bonds	13000.00
Redemption of Punchard School Bonds	6000.00
Redemption of Andover Loan Act Bonds	5000.00
Schools and Receipts	60000.00
Sewer Department Maintenance	2500.00
Sewer Department Sinking Fund	1000.00
Soldiers' Relief	1100.00
Spring Grove Cemetery (and receipts from sale of lots)	2500.00
State Aid	2500.00
Street Lighting	6500.00
Town Officers	6900.00
Town House	3000.00
Tree Warden, Gypsy and Browntail Moth Dept.	3500.00
-Water Department	
Maintenance	15000.00
Construction	1800.00
Sinking Fund	750.00
Pump and Motor (Article 7)	2500.00
Essex Street Bridge (Article 9)	2500.00
Lowell Street (Article 10)	5000.00
Old School House (Article 12)	250.00
 Total	 \$221150.00

The following motion was presented by the Hon. John N. Cole:
That it is the sense of this meeting that the rates for water

charged consumers by the Town of Andover be increased twenty (20) per cent over rates now established, details of changes to be left to the Board of Public Works, and it was

Voted, That the whole matter be referred to the Board of Public Works for careful consideration and report at the next annual town meeting.

Took up Article 4.

Voted, at 5.10 p. m., To indefinitely postpone.

Took up Article 5.

Voted, at 5.11 p. m., To refer to the Street Lighting Committee.

Voted, To take up Article 9 at this time in place of Article 6.

Voted, at 5.22 p. m., That the Selectmen be instructed to petition the County Commissioners at once, to lay out Essex Street, so called, from the B. & M. R. R. tracks to a point about 30 ft. beyond the Shawsheen Bridge, to alter, widen or re-locate said highway, or order specific repairs on the same, including the bridge or abutments of the bridge crossing Shawsheen River, in accordance with the Revised Laws, Chapter 48, Sections 1 and 9, and acts amendatory thereof, and for the purpose of widening the bridge a sum, not exceeding \$2500.00 be appropriated as the Town's share of the cost, the amount required to be expended prior to November 1, 1918.

Voted to take up Article 12.

Voted, at 5.27 p. m., That a sum not exceeding \$250 be appropriated to put in suitable condition the north room on the upper floor of the old Schoolhouse in Ballardvale, put in a stove, and provide such other furnishings as will come within the appropriation, it being understood that the selectmen may grant the use of this room to the Ballardvale Village Improvement Society under such conditions as they may approve.

By courtesy of the meeting, William Shaw presented the following motion, which was voted :

That the School Committee be requested to arrange so that children may be admitted to school privileges at the age of five years, upon the request of their parents, approved by the Superintendent of Schools, the School physician, and the teacher of the First Grade.

Took up Article 6.

Voted, at 5.34., To indefinitely postpone.

Voted to take up Articles 7 and 8 together.

Voted, at 6.02 p. m., That the town appropriate the sum of \$2500.00 for the purpose of installing a five-inch double suction pump, together with a 30-horsepower motor, and accessories, in the Pump Station on Bancroft Road.

Took up Article 10.

Voted, at 6.04. p. m., That the Town appropriate a sum of money not exceeding \$5000 to continue the macadam on Lowell Street, the same to equal an amount which the State and County will severally appropriate, and that the Selectmen be instructed to at once petition the State Highway Commission and the County Commissioners, that each appropriate the sum of \$5000 as the proportion of the expense of said continuation work to be borne by the State and County for the year 1918.

Took up Article 11.

Voted, at 6.05 p. m., To indefinitely postpone.

Took up Article 13.

Voted, at 6.06 p. m., To indefinitely postpone.

Took up Article 14.

Voted, at 6.07 p. m., To indefinitely postpone.

Took up Article 15.

Voted, at 6.08 p. m., That the pay of the firemen be \$75.00 per year.

Took up Article 16.

Voted, at 6.09 p. m., That the taxes be collected by the Tax Collector and that he receive one per cent of all moneys collected and that interest be charged at the rate of six per cent per annum, from October 15th, on all taxes remaining unpaid after November 1st.

Took up Article 17.

Voted, at 6.10 p. m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is, authorized to borrow money from time to time, in anticipation of the revenue of the financial year beginning January 1st, 1918, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 18.

Voted, at 6.11 p. m., That all unexpended appropriations be turned into the treasury.

Took up Article 19.

Voted, at 6.12 p. m., That the report of the Town Officers be accepted.

Took up Article 20.

Voted, at 6.13 p. m., To raise by taxation, \$163,000 and also an amount sufficient to meet the State and County taxes.

Took up Article 21.

The following report was rendered by the Board of Health:
To the Honorable Board of Selectmen: —

At the Town Meeting in March 1917, the Board of Health was asked to report at this time on a plan for the disposal of garbage.

Inasmuch as we have waived temporarily some of the restrictions in regard to the keeping of hens and swine, and to further the interests of our citizens, even in a small way, in the conservation of all food material, also from the fact that the collectors of garbage are now licensed, we have thought it best to suggest to the Town that action upon this matter be deferred for at least a year.

Voted, at 6.15 p. m., That the meeting be dissolved.

The foregoing is a true copy of the Warrant and of the Officer's return on the same, also a true record of the doings of the meeting.

ATTEST,

GEORGE A. HIGGINS,

Town Clerk

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 4, 1918	\$60000.00
Received from tuition and supplies	795.75

60795.75

Teachers' payroll	\$37045.93
Janitors' payroll	4605.26
Alvah Wright, transportation	570.00
C. H. Newton, transportation	456.00
B. & M. R. R., transportation	869.27
T. F. Morrissey & Son, team hire	100.00
C. H. Newton, spring water	27.88
New England Tel. and Tel.	83.16
Lawrence Gas Company	137.82
Perley F. Gilbert	28.80
Boston & Lowell Despatch Express	10.83
American Express Co.	32.61
Lawrence Lumber Co., supplies	147.43
T. A. Holt Co., supplies	38.97
J. H. Campion & Co., supplies	90.16
W. I. Morse, supplies	142.23
Robert Hutcheson, supplies	1.34
Board of Public Works, water	338.66
Ginn & Co., supplies	148.55
D. C. Heath & Co., supplies	185.16
Buchan & Francis, supplies	22.15
J. H. Hammett Co., supplies	109.53
Milton, Bradley Co., supplies	417.07
Iroquois Publishing Co., supplies	4.90
Edward E. Babb & Co., supplies	668.69

<i>Amount carried forward</i>	\$46282.40
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Appropriation and Receipts	\$60795.75
<i>Amount brought forward</i>	\$46282.40
Andover Press, printing and supplies	284.75
G. B. Robbins Disinfecting Co., supplies	56.18
H. I. Dallman Co., supplies	79.12
Jonathan E. Holt, labor	7.00
Arden Farm, supplies	41.25
Cross Coal Co., coal	2115.06
Andover Coal Co., coal	6149.51
Bay State St. Ry. Co., transportation	810.00
Henry C. Sanborn, supplies	75.41
S. K. Ames, supplies	19.58
Chandler & Barber, supplies	106.94
Gaylord Brothers, supplies	10.95
C. C. Richards & Co., supplies	1.27
Lyons & Carnahan, supplies	2.55
Herman Goldberger, supplies	14.50
American Book Co., supplies	55.68
H. W. Johns Manville, supplies	65.00
James McGhie, labor	8.00
J. W. Richardson, labor	239.73
D. Donovan & Son, labor	8.38
Buchan & McNally, labor and supplies	1452.42
City of Lowell, tuition	282.50
Myra A. Jones, labor	6.80
Louis Ilgorsky, labor	10.00
Anna Ilgorsky, labor	10.00
Robert Winters, labor	10.00
John Crowley, labor	4.50
C. A. Hill & Co., labor and supplies	52.47
West Disinfecting Co., supplies	47.25
Smith & Dove Mfg. Co., supplies	6.25
Hiller & Co., supplies	7.63
S. S. Kresge Co., supplies	10.88
Silver Burdett & Co., supplies	29.49
Houghton Mifflin Co., supplies	16.99
<i>Amount carried forward</i>	<hr/> \$58380.44

Appropriation and Receipts

\$60795.75

<i>Amount brought forward</i>	58380.44
Little Brown & Co., supplies	32.84
Benjamin H. Sanborn & Co., supplies	22.35
N. J. Bartlett & Co., supplies	10.00
James J. Abbott, wood	54.00
Paula S. Clough, supplies	.84
Boston Bank Note Co., supplies	54.36
Daniel O'Neal	12.00
The Cutler Dickie Co., supplies	28.65
Tyer Rubber Co., supplies	19.14
Library Bureau, supplies	6.27
Rockport Fish Market, supplies	2.30
E. E. Gray Co., supplies	8.40
Lindsay & Young, provisions	3.44
Chester D. Abbott, supplies	19.30
Albert W. Lowe, supplies	.95
W. H. Coleman & Co., supplies	.50
Manufacturing Equipment Co., supplies	57.00
Frank E. Whiting, cleaning clock	10.00
Bride, Grimes & Co., supplies	31.41
W. D. Walker, school physician	200.00
Henry Lavery, labor	10.00
John Mahoney, labor	10.00
County of Essex, tuition	63.28
C. C. Birchard & Co., supplies	.70
A. N. Palmer Co., supplies	16.18
Oliver Ditson Co., supplies	1.88
Massachusetts State Prison, supplies	25.17
Amigraph Supply Co., supplies	10.57
Toch Brothers, supplies	13.50
George H. Hadley & Co., supplies	10.00
J. H. Playdon, supplies	3.00
William Frye, truant officer	100.36
David May, labor	3.50
Alexander Mirault	3.00

Amount carried forward

\$59225.33

Appropriation and Receipts	\$60795.75
<i>Amount brought forward</i>	\$59225.33
George A. Christie	.76
Rubine Kilburn, labor	2.00
C. L. Wilson, labor	10.50
Anderson & Bowman, labor	2.10
Andrew Wilson & Co., supplies	35.16
John H. Nicoll	10.00
Leonard Saunders, labor	3.50
Curtis Standard Research, supplies	5.96
The MacMillan Co., supplies	44.06
Somerville Brush Co., supplies	10.15
H. B. McArdle, supplies	3.58
Sidney P. White, labor	29.00
W. A. Allen, supplies	1.25
Martin Engraving Co., supplies	9.80
Standard Oil Co., supplies	30.45
John C. Collins, labor	281.32
O. P. Chase, supplies	.30
Thiras Brothers, supplies	3.87
Diamond Spring Water Co., supplies	18.95
Grace S. Thomas, substituting	2.50
Isabel Tobin, substituting	2.50
J. F. Barnard	87.90
Myerscough & Buchan, supplies	.50
Mrs. Joseph L. Burns	2.00
Harvard University Press	.75
Allyn and Bacon, supplies	19.92
Royal Typewriter Co., supplies	.50
L. C. Smith Bros., supplies	2.25
Underwood Typewriter Co., supplies	8.03
D. Appleton & Co., supplies	8.62
Biological Supply Co., supplies	7.00
Charles E. Merrill Co., supplies	7.67
John C. Winston & Co., supplies	11.93
Atkinson Mentzer & Co., supplies	10.21
<i>Amount carried forward</i>	\$59900.32

Appropriation, and Receipts		\$60795.75
<i>Amount brought forward</i>	\$59900.32	
L. E. Knott Apparatus Co., supplies	21.59	
Masury Young Co., supplies	6.50	
The Gregg Publishing Co., supplies	6.58	
Rand & McNally Co., supplies	5.10	
Funk & Wagnalls Co., supplies	2.75	
James A. Eaton, supplies	1.60	
American Seating Co., supplies	6.00	
Merrimac Boiler Works, supplies	326.78	
Overmeadow Farm, supplies	3.60	
George E. Hussey, supplies	2.00	
S. T. Shattuck & Sons, labor	30.00	
City of Lawrence	19.99	
Philip L. Hardy, labor	188.89	
Anti-Dust Co., supplies	16.00	
Charles K. Ernst, supplies	66.00	
David Milne, labor	3.50	
Louis J. Kibbee, labor	10.00	
Edward S. Hardy, wood	121.00	
American Supplies Co., supplies	4.99	
The Prang Co., supplies	3.36	
LeRoy Phillips Publishing Co., supplies	2.06	
Hopkinson and Holden, supplies	22.56	
Reformatory for Women, supplies	18.35	
Total	60789.52	
Balance	6.23	
	<hr/>	<hr/>
	\$60795.75	\$60795.75

OLD SCHOOL HOUSE, BALLARDVALE

Appropriation, March 4, 1918		\$250.00
J. E. Pitman, as per contract	\$250.00	
Total expenditure	\$250.00	\$250.00

NEW HIGH SCHOOL BUILDING

Balance from last year		\$1742.28	
Received from interest and sales		84.93	
John W. Richardson	\$63.14		
James Wilkinson Co.	31.49		
Chandler & Barber	26.73		
Buchan & Francis	130.75		
D. Donovan & Son	22.40		
H. W. Johns Manville Co.	49.00		
J. H. Mendell Co.	615.01		
Fisher, Ripley & LeBoutillier	461.61		
Suffolk Engraving Co.	2.00		
Frank E. Dodge	3.60		
George B. Petrie	5.90		
Board Public Works	82.54		
Cambridge Botanical Supply Co.	306.48		
Emil M. Zeichert	18.23		
Total expenditure	1818.88		
Balance to treasurer	8.33		
	<u>\$1827.21</u>	<u>\$1827.21</u>	

TOWN OFFICERS

Appropriation, March 4, 1918		\$6900.00
Harry M. Eames, chairman selectmen	\$700.00	
Walter S. Donald, selectman	600.00	
Charles Bowman, selectman	600.00	
George A. Higgins, treasurer	600.00	
George A. Higgins, town clerk	900.00	
Alfred L. Ripley, moderator	10.00	
Nesbit G. Gleason, auditor	50.00	
Walter H. Coleman, auditor	50.00	
John S. Robertson, auditor	50.00	
Ira Hill, field driver	25.00	
William C. Crowley, sealer of weights and measures	172.83	
Registrars of Voters	104.50	
Precinct Officers, Precinct 1	142.00	
Precinct Officers, Precinct 2	80.00	
Election Officers, town meeting	70.00	
Smart & Flagg, bond for Treasurer and Collector	230.00	
Daniel J. Murphy, town counsel	320.00	
Collectors of Taxes	1833.82	
Dr. J. J. Daly, town physician	200.00	
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Total expenditure	6738.15	
Balance	161.85	
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	\$6900.00	<hr/> \$6900.00

TOWN HOUSE

Appropriation, March 4, 1918		\$3000.00
Receipts		182.75
George W. Mears, janitor	\$800.00	
Holden Bros., painting	63.20	
C. A. Hill & Co., supplies	36.86	
High School Committee, radiator	8.00	
Lawrence Gas Co., gas and electricity	151.23	
L. Saunders, police duty	4.50	
New England Tel. and Tel. Co.	.90	
W. I. Morse, supplies	27.62	
Frank M. Foster, labor on settees	9.00	
C. F. Emerson, carting ashes, etc.	17.50	
Buchan & Francis, supplies	5.50	
T. A. Holt Co., supplies	12.19	
Andover Coal Co., coal	186.40	
J. W. Richardson, repairs	1.16	
Frank L. Dodge, repairing boiler setting	4.25	
Gray & Kendall, repairs	10.74	
H. I. Dallman & Co., supplies	9.31	
Knipe Brothers, repairs on plumbing	71.78	
Theo Muise, repairs on flag	18.25	
Miss S. E. Riley, repairs on flag	5.50	
Cheshire Chemical Co., supplies	7.00	
Buchan & McNally, supplies	.60	
A. S. Manning, supplies	1.15	
Mendlick Bros., cell-room floor	143.00	
Sadie Hobbs, laundry	7.86	
Anderson & Bowman	.25	
<i>Amount carried forward</i>	<hr/> \$1603.75	

Appropriation and Receipts		\$3182.75
<i>Amount brought forward</i>	\$1603.75	
David M. May, services	13.00	
J. E. Pitman, contract on cell-room	1390.61	
W. H. Welch & Co., plumbing	150.00	
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Total expenditure	3157.36	
Balance	25.39	
	<hr/>	
	\$3182.75	<hr/> \$3182.75

FIRE DEPARTMENT

Appropriation, March 4, 1918		\$9400.00
Earnings of teams		1412.70
Sale of manure		75.00
Ivan E. Steadman, chauffeur	\$510.00	
George Dick, chauffeur	1191.50	
Lester Hilton, chauffeur	1182.00	
John Haggerty, driver	1081.60	
John Collins, chauffeur	1030.00	
Joseph Smith, chauffeur	35.50	
William Baker, driver	529.00	
K. Spark, labor	1.50	
J. Peso, labor	1.00	
William Hatch, labor	2.00	
A. Bliss, labor on wires	2.50	
Z. Tardiff, labor on fire alarm	1.50	
R. Bales, labor on fire alarm	1.50	
F. Collins, labor on fire alarm	5.00	
Curry Bros. Oil Co., oil	18.14	
Andover Press, printing	7.00	
Payroll Engine Co. No. 1	1212.50	
W. H. Coleman Co., supplies	10.71	
John Haggerty, telephone	25.44	
P. J. Hannon, hay	37.10	
Sinclair Refining Co., gasoline	35.00	
Myerscough & Buchan, oil	4.17	
George A. Brown, supplies	22.50	
Payroll Engine Co., No. 2	635.00	
Lester Hilton, labor on fire alarm	1.50	
H. M. Eames, hay	120.75	
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<i>Amount carried forward</i>	\$7704.41	\$10887.70

Appropriation and Receipts	\$10887.70
<i>Amount brought forward</i>	\$7704.41
S. T. Shattuck, teaming	.90
P. Murnane, janitor	100.00
John F. Riley, engineer	100.00
Walter I. Morse, engineer	100.00
Charles S. Buchan, chief engineer	150.00
John W. Richardson, labor	10.02
A. M. Colby, repairs	18.95
Robert Jackson, labor	8.00
Board of Public Works, water	34.68
Fred Peck, labor	2.00
Frank A. Davis, labor	2.00
Frederick Hulme	10.00
Boston and Lawrence Despatch, express	1.47
Boston Woven Hose Co., fire hose	20.38
Motor Parts Co., supplies	5.90
Standard Oil Co., gasoline	87.73
Smith & Dove Mfg. Co.	1.25
T. F. Morrissey & Son	38.85
Lawrence Gas Co., gas and electricity	80.42
P. J. Daly & Co., supplies	10.75
American Express Co., express	8.77
Ralph L. Greenwood	10.00
B. & M. R. R., freight	1.00
Tyer Rubber Co., blowing fire whistle	100.00
Tyer Rubber Co., supplies	1.88
Knipe Brothers, supplies and repairs	45.71
C. A. Hill & Co., supplies and repairs	32.66
Fred Adams, labor	4.00
C. S. Buchan	.73
Andover Coal Co.	643.04
Anderson & Bowman, shoeing horses, etc.	119.50
E. W. Boutwell, hay	148.16
E. McCabe & Co., repairs on boiler	5.60
A. S. Manning, supplies	103.76
<i>Amount carried forward</i>	\$9712.52

Appropriation and Receipts		\$10887.70
<i>Amount brought forward</i>	\$9712.52	
T. A. Holt Co., supplies	131.65	
J. H. Campion & Co., supplies	12.09	
R. M. Haynes, supplies	133.01	
Walter I. Morse, supplies	59.34	
Buchan & McNally, supplies	32.05	
Buchan & Francis, supplies	12.35	
New England Tel. and Tel. Co. telephones	48.44	
Ira Buxton, engineman	50.00	
Ira Buxton	26.35	
A. W. Lowe, horse medicine	1.36	
Andover Steam Laundry	28.96	
J. E. Pitman, labor and supplies	44.22	
American La France Engine Co., supplies	278.07	
Poor & Riley, supplies	183.52	
John L. Morrison, shoeing horses, etc.	79.45	
The Dayton Tire Co., tires	563.56	
Gamewell Fire Alarm & Tel. Co.	1.88	
Crowley & Co., horse medicine	5.26	
Benjamin Jaques, wood	3.50	
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Total expenditure	11407.58	
Transferred from Miscellaneous		519.88
	<hr/>	<hr/>
	\$11407.58	\$11407.58

BRUSH FIRES

Appropriation, March 4, 1918		\$600.00
Received from B. & M. Railroad		123.90
William Baker, et al	\$2.50	
C. S. Harnden, et al	9.75	
C. L. Bailey, et al	3.75	
C. A. Hill, et al	21.50	
A. Bliss Jr., et al	60.25	
John A. Riley, et al	66.50	
Henry Platt, et al	57.00	
American La France Fire Engine Co.	15.00	
W. H. Coleman & Co.	4.00	
Charles S. Buchan, et al	109.75	
Poor & Riley, shovels	15.75	
Joseph Terry, printing	5.50	
George Dunnells, et al	62.00	
Lester Hilton, et al	55.75	
C. W. Flanders	.80	
Louis Kibbee, et al	57.00	
P. E. Livingston, et al	8.00	
S. T. Shattuck & Son	6.25	
H. Murphy, et al	30.00	
Fred Collins, et al	6.00	
George Clemons, et al	39.50	
Fire Department, supplies	51.30	
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Total expenditures	687.85	
Balance unexpended	36.05	
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	\$723.90	\$723.90

POLICE DEPARTMENT

Appropriation, March 4, 1918		\$4500.00
County Treasurer, killing dogs		44.00
Frank M. Smith, chief, and use of team	\$1375.00	
James Napier, night police	1070.00	
William L. Frye, night police	1070.00	
Daniel P. Webster, day police	272.00	
Ralph Bruce, policeman	72.00	
Thomas Daly, policeman	73.00	
Charles A. Hill, supplies	13.55	
Dr. W. D. Walker, services	10.00	
Holden Brothers	7.00	
F. M. Smith, meals for prisoners	11.25	
Walter I. Morse, supplies	7.85	
Traffic Sign & Signal Co., silent policeman	7.80	
Andover Press, printing	10.80	
Frank L. Cole, coat	12.50	
Dionecio Michelini	.70	
Frank Carse, police duty	25.05	
Theo Muise, repairs on coats	24.85	
W. H. Coleman & Co., supplies	11.85	
S. T. Shattuck	9.00	
New England Tel. & Tel. Co.	77.43	
George C. Dunnells, police duty	48.50	
Gray & Kendall, supplies	.90	
Myerscough & Buchan, auto hire	23.48	
Buchan & Francis	.25	
Andover Steam Laundry	1.40	
Buchan & McNally, supplies	4.45	
David M. May, police duty	52.00	
<i>Amount carried forward</i>		<hr/> \$4292.61 \$4544.00

Appropriation and Receipts		\$4544.00
<i>Amount brought forward</i>	\$4292.61	
R. J. Macartney	39.76	
M. T. Welch, police duty	100.10	
O. P. Chase	.22	
John Stack, police duty	13.00	
Buchan & McNally, supplies	4.20	
Thos. F. Morrissey & Son, auto hire	174.25	
American Express Co.	.92	
James Walker, police duty	94.70	
Leonard Saunders, police duty	63.64	
F. Valentine, police duty	15.00	
Anderson & Bowman, supplies	1.50	
James Napier, meals for prisoners	5.10	
William C. Brown, police duty	16.50	
Leonard Saunders, killing dogs	44.00	
Charles Newton, police duty	8.00	
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Total expenditure	4873.50	
Overdrawn		329.50
	<hr/>	<hr/>
	\$4873.50	\$4873.50

BOARD OF HEALTH

Appropriation, March 4, 1918		\$1500.00
Reading Sanitorium	\$64.58	
Charles H. Newton, inspector of meat	130.00	
Andover Press, printing	7.55	
T. F. Morrissey & Son, auto hire	5.50	
Charles H. Newton, cattle inspector	250.00	
B. T. Haynes, member Board of Health	50.00	
B. T. Haynes, sundries	8.82	
Massachusetts Assn. Boards of Health	2.50	
H. H. Nevers	6.00	
James P. Nolan, inspector plumbing	54.00	
Dr. C. E. Abbott, secretary	75.00	
Dr. C. E. Abbott, postage and sundries	13.50	
Dr. C. E. Abbott, fumigation	134.50	
Lawrence Tuberculosis Hospital	267.27	
Charles Litchfield, scarlet fever	48.00	
Knipe Bros., labor	14.00	
B. O. Pinkham	15.00	
City of Haverhill	24.00	
Franklin H. Stacey, Board of Health	50.00	
Franklin H. Stacey, milk inspector	75.00	
Board of Health, postage and sundries	32.64	
Board of Health	57.17	
Hobbs & Warren	2.82	
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Total expenditure	1387.85	
Balance	112.15	
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	\$1500.00	\$1500.00

PRINTING AND STATIONERY

Appropriation, March 4, 1918		\$1400.00
Burroughs Adding Machine Co.	\$8.00	
Carter Ink Co.	1.25	
Andover Press	1122.32	
J. H. McDonald, stamps, etc.	198.97	
Wright & Potter Publishing Co., printing	10.75	
Henry M. Musk Publishing Co., printing	3.00	
Hobbs & Warren, printing	9.00	
P. B. Murphy, printing	3.25	
H. M. Meserve, printing	6.03	
E. Sellars, typewriting	10.00	
R. A. Todd Paper Co., paper	2.76	
A. W. Brownell	.75	
Sengbusch Inkstand Co., inkstands	3.42	
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Total expenditure	1379.50	
Balance	20.50	
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	\$1400.00	<hr/> \$1400.00

GYPSY AND BROWNTAIL MOTH DEPARTMENT

Appropriation, March 4, 1918		\$3000.00
Sales of Supplies and Private Work		2700.15
Payrolls	\$2786.19	
Gray & Kendall, repairs	.85	
American Express Company	1.23	
Wm. H. Welch & Co., supplies	4.60	
John L. Morrison, storing sprayer	105.00	
Commonwealth of Massachusetts	10.80	
W. M. Farwell, arsenate of lead	89.40	
S. T. Shattuck, labor and storage of sprayers	289.33	
Anderson & Bowman, labor	4.30	
Freeman Abbott, hauling sprayer	273.60	
Samuel Cabot, supplies	13.86	
City of Malden, lead	180.85	
W. I. Morse, supplies	53.19	
American La France Engine Co., repairs	3.50	
C. A. Hill & Co., supplies	1.45	
Fitzhenry Guptil Co., lead and sulphur	22.50	
Buchan & McNally, supplies	.40	
John H. Playdon, superintendent	150.00	
Dow Chemical Co., arsenate of lead	1332.00	
Sherman Williams Co., supplies	36.12	
Martin Doherty, storage	60.00	
W. H. Coleman, gasoline	103.72	
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Total expenditure	5222.89	
Balance	177.26	
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	\$5700.15	\$5700.15

TREE WARDEN

Appropriation, March 4, 1918		\$500.00
Payrolls	\$372.73	
Lawrence Lumber Co.	4.50	
Follansbee Nursery Co., trees	37.50	
W. I. Morse, supplies	1.82	
Fire Department	4.50	
Gray & Kendall, filing saws, etc.	6.65	
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Total expenditure	427.70	
Balance	72.30	
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	\$500.00	<hr/>
		\$500.00

SPRING GROVE CEMETERY

Appropriation, March 4, 1918		\$2500.00
Sale of lots		787.50
Care of lots		553.50
Interments		376.26
Foundations		122.71
Sundries		129.06
Payrolls	\$3538.16	
E. Lundgren, acting superintendent	100.00	
C. L. Wilson, self and team	7.50	
People's Ice Co., ice	39.00	
F. A. Gould, self and teams	53.67	
F. L. Dodge, mason work	13.30	
A. J. Kushin Co., stump puller	109.75	
O. P. Chase, sundries	.20	
A. S. Manning, fertilizer	54.25	
Anderson & Bowman, repairs	2.80	
W. I. Morse, supplies	263.04	
Edith Sellars, clerical work	100.00	
Buchan & McNally, supplies	2.95	
John W. Bell, sundries	2.00	
A. M. Colby, notices	1.75	
Joseph C. Terry, printing	4.25	
John L. Morrison, repairs	13.00	
Board Public Works, water	8.77	
J. H. Playdon, shrubs	33.10	
W. L. Johnson	16.50	
Total expenditure	4363.99	
Balance	105.04	
	<hr/>	<hr/>
	\$4469.03	\$4469.03

INSURANCE

Appropriation, March 4, 1918		\$2000.00
Appropriation, Workmen's Compensation		1600.00
Dividends		39.64
Smart & Flagg, agents, insurance	\$2013.62	
Smart & Flagg, Workmen's Compensation	2154.27	
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Total expenditure	4167.89	
Transferred from Miscellaneous		528.25
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	\$4167.89	\$4167.89

HAY SCALES

Appropriation, March 4, 1918		\$125.00
John W. Richardson, repairs	\$3.73	
William C. Brown, weigher	100.00	
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Total expenditure	103.73	
Balance	21.27	
	<hr/>	<hr/>
	\$125.00	\$125.00

STREET LIGHTING

Appropriation, March 4, 1918		\$6500.00
Lawrence Gas Co.	\$6262.39	
Balance	237.61	
	<hr/>	<hr/>
	\$6500.00	\$6500.00

MEMORIAL DAY

Appropriation, March 4, 1918		\$350.00
June 3, Moses L. Farnham, Quartermaster	\$350.00	
	<hr/>	<hr/>
Total expenditure	\$350.00	\$350.00

MEMORIAL HALL LIBRARY

Appropriation, March 4, 1918		\$1800.00
F. S. Boutwell, treasurer Memorial Hall Library	\$1800.00	
Total expenditure	\$1800.00	\$1800.00

POST 99, G. A. R.

Appropriation, March 4, 1918		\$100.00
April 29, Paid Moses L. Farnham Quar- termaster	\$100.00	.
Total expenditure	\$100.00	\$100.00

SEWER SINKING FUND

Appropriation, March 4, 1918		\$1000.00
Thos. E. Rhodes, Treas. Sinking Fund	\$1000.00	
Total expenditure	\$1000.00	\$1000.00

WATER SINKING FUND

Appropriation, March 4, 1918		\$750.00
Thos. E. Rhodes, Treas. Sinking Fund	\$750.00	
Total expenditure	\$750.00	\$750.00

STATE TAX AND HIGHWAY TAX

Andover's proportion of State Tax	\$22000.00	
Andover's proportion of Highway Tax	4629.50	
Charles L. Burrill, Treas. and Receiver		
General	\$26629.50	
	<hr/>	<hr/>
Total expenditure	\$26629.50	\$26629.50

COUNTY TAX

Andover's proportion of County Tax	\$15597.70	
David I. Robinson, County Treasurer	\$15597.70	
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Total expenditure	\$15597.70	\$15597.70

DOG TAX

Received from County Treasurer	\$621.13	
Paid F. S. Boutwell, Treasurer Memorial		
Hall	\$621.13	
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Total expenditure	\$621.13	\$621.13

NOTES GIVEN

Mar. 16, Andover National Bank, Note No. 44, due Nov. 18, Rate 5.44	\$20000.00
Mar. 16, Andover National Bank, Note No. 45, due Nov. 22, Rate 5.44	10000.00
Mar. 16, Andover National Bank, Note No. 46, due Nov. 22, Rate 5.44	10000.00
Mar. 16, Andover National Bank, Note No. 47, due Nov. 29, Rate 5.44	15000.00
Mar. 16, Andover National Bank, Note No. 48, due Dec. 6, Rate 5.44	15000.00
Mar. 16, Andover National Bank, Note No. 49, due Dec. 13, Rate 5.44	5000.00
Mar. 16, Andover National Bank, Note No. 50, due Dec. 13, Rate 5.44	5000.00
Aug. 5, Andover National Bank, Note No. 51, due Dec. 10, Rate 4.25	20000.00
Total Notes issued	<hr/> \$100000.00

NOTES PAID

Nov. 18, Andover National Bank, Note No. 44	\$20000.00
Andover National Bank, Note No. 45	10000.00
Andover National Bank, Note No. 46	10000.00
Andover National Bank, Note No. 47	15000.00
Andover National Bank, Note No. 48	15000.00
Andover National Bank, Note No. 49	5000.00
Andover National Bank, Note No. 50	5000.00
Andover National Bank, Note No. 51	20000.00
<hr/>	
Total Notes paid	\$100000.00

INTEREST

Appropriation, March 4, 1918		\$17000.00
Interest on deposits		775.41
Paid 229 Water Bonds Coupons at \$20.00	\$4580.00	
Paid 91 Water Bonds Coupons at \$17.50	1592.50	
Paid 203 Sewer Bonds Coupons at \$20.00	4060.00	
Paid 210 High School Bonds Coupons at \$20.00	4200.00	
Paid 30 Andover Loan Act Bonds Coupons at \$20.00	600.00	
Interest on Notes 44 to 56 inclusive	3339.56	
	<hr/>	
Total expenditure	18372.06	
Transferred from Miscellaneous		596.65
	<hr/>	<hr/>
	\$18372.06	\$18372.06

REDEMPTION OF BONDS

Appropriation, March 4, 1918

Water		\$13000.00
Punchard School		6000.00
Andover Loan Act		5000.00
Abbott Village Sewer Assessment		5000.00
Mar. 28, Old Colony Trust Co., Water Bond	\$1000.00	
Apr. 13, Geo. A. Higgins, Treas., paid Water Bond No. 216	1000.00	
Apr. 27, Old Colony Trust Co., Water Bond No. 334	1000.00	
June 4, Geo. A. Higgins, Treas., paid 2 Water Bonds No. 240, 250	2000.00	
June 28, Old Colony Trust Co., 5 Sewer Bonds, No. 151 to 155	5000.00	
June 28 Old Colony Trust Co., 2 Water Bonds	2000.00	
June 28, Old Colony Trust Co., 1 High School Bond, No. 101	1000.00	
Aug. 28, Old Colony Trust Co., 1 Water Bond, No. 317	1000.00	
Sept. 27, Old Colony Trust Co., 5 High School Bonds, No. 6 to 10	5000.00	
Oct. 26, Old Colony Trust Co., 5 Andover Loan	5000.00	
Nov. 13, Geo. A. Higgins, Treas., paid 5 Water Bonds, 141 to 145	5000.00	
Total	\$29000.00	\$29000.00

RETIREMENT OF VETERANS

Appropriation, March 4, 1918		\$300.00
James Saunders	\$300.00	
	<hr/>	<hr/>
Total expenditure	\$300.00	\$300.00

PUBLIC DUMP

Appropriation, March 4, 1918		\$75.00
Olof Benson	\$75.00	
	<hr/>	<hr/>
Total expenditure	\$75.00	\$75.00

MISCELLANEOUS

Appropriation, March 4, 1918	\$3000.00
New England Tel. and Tel. Co.	\$8.01
American Express Co.	1.41
Andover National Bank, safe deposit box	5.00
Dr. E. C. Conroy, return of births	.50
Dr. C. E. Abbott, return of births	2.25
Dr. J. J. Daly, return of births	3.25
Dr. E. D. Lane, return of births	4.50
Dr. W. D. Walker, return of births	10.75
Dr. P. J. Look, return of births	8.75
C. F. Keefe, return of deaths	1.25
Conlin & Ryan, return of deaths	1.25
M. J. Mahoney, return of deaths	5.00
E. M. Lundgren, return of deaths	21.00
George C. Dunnells	3.00
S. T. Shattuck	.50
W. L. Frye, constable	5.00
C. W. Flanders, lunch for counters	7.25
George A. Leck, photo of Essex Street	7.50
Patrick J. Barrett	3.00
Lilla D. Stott, probate and registry returns	41.45
Ira B. Hill	4.00
W. & L. E. Gurley, supplies for sealer	2.98
Madeleine Hewes, clerical work	63.25
J. E. Pitman, work on old Ballardvale schoolhouse	68.81
City of Lawrence, settlement of claim	573.85
H. M. Meserve & Co.	7.93
<i>Amount carried forward</i>	\$861.44

Appropriation, March 4, 1918		\$3000.00
<i>Amount brought forward</i>	\$861.44	
John Franklin, plan of Essex Street	6.00	
T. F. Daly, constable	5.00	
Myerscough & Buchan, auto hire for registrars	6.00	
T. F. Morrissey & Son, auto hire	33.00	
Dr. E. D. Lane, medical services	9.00	
W. F. Gledhill, fish warden	10.00	
Bureau of Statistics	16.00	
B. & M. R. R., tickets	51.35	
Review of Record Co.	5.00	
Land Commissioners	3.00	
Todd Protectograph Co., check protector	39.20	
Expenses incurred by selectmen	12.75	
Farley Awning Co., decorating Town Hall	71.90	
J. H. Playdon	10.00	
Geo. A. Higgins, sundry expenses	30.25	
J. A. Riley, attendance on registrars	15.85	
	<hr/>	
Total expenditure	1185.74	
Transferred to Interest	596.65	
Transferred to Fire Department	519.88	
Transferred to Insurance	528.25	
Balance	169.48	
	<hr/>	
	\$3000.00	\$3000.00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1918:—

Since 1908 the Town of Andover has been most fortunate in having as superintendent and matron at the Town Farm, Mr. and Mrs. Fred Swanton, and it was with regret that we received their resignation, for during the ten years that they have had charge of our almshouse, they not only have performed their duties in a manner most satisfactory to your Overseers, but by their ever kind and painstaking treatment had endeared themselves to those committed to their care. Especially is this true of Mrs. Swanton, who possessed peculiar ability for the successful discharge of the complicated and oftentimes difficult duties of her position as matron.

We appointed Mr. and Mrs. William Hooten to take charge of the almshouse. They had been employed in a similar institution in Methuen and came highly recommended.

The business affairs of the almshouse and farm have as heretofore been well conducted; the house continues to be a model of neatness and good order throughout.

The expenses of the past year as shown in the accounts are about the same as in 1917. "Poverty they say is cheap," but it costs our generous town a large sum of money every year, and the calls for aid will doubtless be as great, if not more, for the next year, judging from the present business outlook, and the greater number who will need employment.

At the time our almshouse was built, it was not termed almshouse, but workhouse, and the inmates were young, middle-aged, old and mildly insane, and during the years these conditions prevailed it was a model building for this purpose, and was so deemed by the State officials as shown in their reports; but with the change in State laws, the personnel of our inmates has changed: "no children, no insane"; principally those who are

advanced in years, with no one to care for them and it would seem that the present building, containing some sixty rooms of various kinds, is larger than is needed, and that some plan could be devised whereby without reducing the efficiency, the expense of this department could be reduced; and we would suggest that a committee of three be appointed to consider the matter and report at the next annual town meeting.

HARRY M. EAMES

WALTER S. DONALD

CHARLES BOWMAN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 4, 1918	\$4500.00
Receipts from Town Farm	1355.43

\$5855.43

J. H. Campion & Co., groceries	\$48.98
S. K. Ames, supplies	17.53
Lindsay & Young, provisions	372.82
Lawrence Gas Co.	187.71
T. A. Holt Co., groceries	631.94
H. Bruckman, grain	261.12
A. B. Sutherland Co., dry goods	71.37
A. S. Manning, groceries	268.69
Rockport Fish Market, fish	83.33
Andover Coal Co.	410.87
John D. Blackshaw, supplies	1.00
Thiras Brothers, supplies	1.25
T. F. Morrissey & Son, straw	7.60
Frank L. Holt, labor	89.75
Percy J. Look, medical service	5.00
John Curtin, provisions	47.34
A. M. Colby, supplies	6.40
C. A. Hill & Co., electric ironer	133.24
John L. Morrison, blacksmith work	2.25
New England Tel. and Tel. Co.	3.58
Buchan & Francis, supplies	38.16
O. P. Chase, supplies	17.54
Andover Board of Public Works, water	70.03
Andrew Basso, supplies	26.68
Andover Press, supplies	6.50

<i>Amount carried forward</i>	\$2810.68
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Appropriation and Receipts		\$5855.43
<i>Amount brought forward</i>	\$2810.68	
George A. Brown, shoes and repairing	30.50	
Hiller & Co., supplies	35.01	
Peter Henderson & Co., seeds	14.20	
Anderson & Bowman, blacksmith work	28.95	
Theo Muise, supplies	1.50	
Chester D. Abbott, supplies	18.00	
Charles Robinovitz, shoes	13.25	
Buchan & McNally, supplies	29.80	
Walter I. Morse, hardware	19.56	
F. Orris Rea, supplies	20.75	
Frank E. Whiting, supplies	2.00	
Beach Soap Co., supplies	28.49	
Robert Hutcheson, fish	2.45	
H. F. Chase, supplies	2.00	
Frank L. Cole, clothing	12.10	
Providence Churning Co., supplies	59.85	
Armour & Co., supplies	4.50	
F. C. Small & Co., groceries	107.99	
J. E. Pitman, supplies	4.50	
Reid & Hughes, dry goods	84.99	
Albert W. Lowe, drugs	43.50	
D. F. Chase, provisions	44.69	
Family Shoe Store, shoes	6.70	
T. H. Lane & Son, clothing	15.80	
Charles Stone, supplies	1.50	
A. B. Loomer, provisions	89.76	
Charles Melamed, pasturing heifers	28.00	
Annie W. Swanton, labor	83.33	
Crowley & Co., drugs	48.25	
Walter C. Boyce, pasturing heifers	21.25	
Charles F. Emerson, labor	1.38	
Lawrence Lumber Co., supplies	7.95	
Herbert Lewis, labor	40.74	
Lawrence Telegram, advertising	1.05	
<i>Amount carried forward</i>	\$3764.97	

Appropriation and Receipts		\$5855.43
<i>Amount brought forward</i>	\$3764.97	
People's Ice Co., ice	65.00	
J. P. Wakefield, provisions	14.17	
G. A. Yunggebauer, provisions	6.57	
Fred A. Swanton, superintendent	666.67	
William Hooton, superintendent	133.33	
Mrs. Lulu Whitman, labor	33.14	
Isabella Sinclair, labor	337.86	
Bertha Johnson, labor	278.00	
Jeremiah Doucette, labor	3.15	
Mrs. McEwan, labor	6.63	
G. E. Gillespie, labor	7.70	
Daniel J. Sharp, labor	10.00	
Lewis J. Kibbee, labor	6.00	
Alice J. Kimball, labor	55.00	
Mary Myers, labor	23.75	
	<hr/>	
Total expenditure	5411.94	
Balance	443.49	
	<hr/>	
	\$5855.43	\$5855.43

ALMSHOUSE REPAIRS

Appropriation, March 4, 1918		\$300.00
Walter I. Morse, hardware	\$16.15	
C. A. Hill & Co., supplies	1.05	
W. T. Locke, labor	26.50	
Frank E. Dodge, labor and supplies	29.15	
Lawrence Lumber Co., labor	7.50	
Buchan & McNally, labor and supplies	32.79	
J. E. Pitman, supplies	16.62	
Merrimack Boiler Co., supplies	18.35	
	<hr/>	
Total expenditure	148.11	
Balance	151.89	
	<hr/>	
	\$300.00	\$300.00

SOLDIERS' RELIEF

Appropriation, March 4, 1918		\$1100.00
Total expenditure	\$1025.77	
Balance	74.23	
	<hr/>	<hr/>
	\$1100.00	\$1100.00

STATE AID

Appropriation, March 4, 1918		\$2500.00
Total expenditure	\$1949.00	
Balance	551.00	
	<hr/>	<hr/>
	\$2500.00	\$2500.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 4, 1918		\$500.00
Town cases	\$266.00	
On account other cities	739.00	
On account of State	430.00	
	<hr/>	
Total expenditure	1435.00	
Due from cities	\$510.66	
Due from State	540.67	
	<hr/>	
	1051.33	
	<hr/>	
Net expenditure	383.67	
Balance	116.33	
	<hr/>	<hr/>
	\$500.00	\$500.00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 4, 1918		\$4300.00
Paid out of almshouse	\$3290.39	
Paid other cities and towns	57.34	
Paid State	148.00	
Paid on account State	270.83	
	<hr/>	
Total expenditure	\$3766.56	
Due town from State	232.83	
	<hr/>	
Net expenditure	3533.73	
Balance	766.27	
	<hr/>	
	\$4300.00	\$4300.00

PERSONAL PROPERTY AT ALMSHOUSE

House furniture	\$1375.00	
Clothing	300.00	
Farm stock	720.00	
Farm tools	350.00	
Farm produce	440.00	
Fuel	490.00	
Provisions	125.00	
	<hr/>	\$3800.00

FARM CASH REPORT

FROM JANUARY 1, 1918, TO NOVEMBER 1, 1918

Received for

Cows	\$570.00
Milk	32.64
Calves	13.50
Pigs	258.00
Fowl	32.10
Eggs	51.10
Hay	31.19
Lumber	89.92
Board of inmates	248.42

Paid Town Treasurer to balance		1326.87
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	<u>\$1326.87</u>	<u>\$1326.87</u>
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FRED A. SWANTON,

Superintendent

FROM NOVEMBER 1, 1918 TO DECEMBER 31, 1918

Received for

Milk	\$7.56
Calf	5.00
Board	16.00

Paid Town Treasurer to balance		28.56
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	<u>\$28.56</u>	<u>\$28.56</u>
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WILLIAM HOOTON,

Superintendent

ASSESSORS' REPORT

We herewith submit our annual report.

Number of male polls assessed		2025
Personal estate	\$1738275.00	
Real estate	6279425.00	
	<hr/>	\$8017700.00
Poll tax	\$4050.00	
Tax on personal property	38679.27	
Tax on real estate	139721.83	
	<hr/>	\$182451.10

Rate of taxation per \$1000, \$22.25.

Number of	
Horses assessed	532
Cows assessed	1037
Cattle other than cows assessed	304
Sheep assessed	22
Swine assessed	257
Fowl assessed	10492
Dwellings assessed	1673
Acres of land assessed	17851

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Assessors of Andover

FIRE DEPARTMENT

To the Board of Selectmen.

GENTLEMEN:— In compliance with the regulations of the Fire Department I submit the following report from January 1, 1918, to January 1, 1919. During this time 82 bell alarms, 9 still alarms, and 2 out-of-town calls were answered. Apparatus at Central Station answered 75 bell, 11 still, and 2 out-of-town calls.

Combination No. 1 traveled 373 miles; Combination No. 2 traveled 131 miles; Ladder No. 1, 41 miles. We have laid 16,500 feet of 2½-inch hose, 1600 feet of ¾-inch hose, raised 571 feet of ladders, and used 1090 gallons of chemicals.

In answering grass and brush fires the apparatus traveled 346 miles, laid 4950 feet of 2½-inch hose, 750 feet of ¾-inch hose, and used 624 gallons of chemicals.

Value of buildings and contents where fires occurred, \$639,974.82; loss on buildings and contents, \$22,368.14; insurance on buildings and contents, \$550,749.00.

During the past year there were 14 fires reported that the department was not called on, with a loss of \$391.00 and insurance \$35,820.00.

The working force of the department consists of three engineers, four permanent men, and sixteen call men at Central Station; one permanent man and eight call men at Hose No. 2, Ballardvale. The apparatus in working order consists of one Auto Combination Chemical Truck, one Combination Pumping and Chemical Truck, one Fourth Class Amoskeag Fire Engine, one two-horse Ladder Truck, one two-horse Hose Wagon, one spare two-horse Wagon, and one two-horse Pung.

There are about 4500 feet of hose in good condition.

The fire alarm is in good condition, but during the coming year part of the battery system will have to be replaced at an esti-

mated cost of \$100.00. Also, very soon the old wire on the system will have to be replaced with new.

The earnings of the horses and drivers, rent of shed, and sale of manure for the past year was about \$1487.70.

During the past year the cost of tires and repairs on tires was \$616.27, and can be honestly charged up to brush fires, as they were almost new at the beginning of the new year.

We feel that the present apparatus is too heavy and expensive to run to brush fires, and recommend that a chassis be purchased and the body of the spare hose wagon be fitted to it and be equipped for brush-fire work.

We also recommend that some time in the near future the town purchase an auto ladder truck. The upkeep of the horse-drawn apparatus the past year at the Central Station was \$458.27, and at Hose No. 2, Ballardvale, was \$553.03. The expense of keeping a motor truck would be about \$50.00 for gasoline and oil, and this would be a great saving over the horse-drawn apparatus.

Owing to the high cost of everything pertaining to the upkeep of the department, we recommend the appropriation of \$10,000 for the ensuing year, together with the earnings.

Respectfully submitted,

WALTER I. MORSE

Chief Engineer

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen.

GENTLEMEN:— I herewith submit the report of the Police Department for the year ending December 31, 1918.

Whole number of arrests, 120. Males, 116. Females, 4.

OFFENSES FOR WHICH ARRESTS WERE MADE

Non-Support	1
Manslaughter	3
Larceny	20
Violating Automobile Law	7
Drunk	15
Common drunk	3
Assault	5
Delinquency	29
Malicious mischief	2
Vagrancy	3
Insane	5
Peddling without license	1
Violation of Town ordinance	3
Trespass	1
Stubborn child	2
Out-of-town officers	6
Having no card of registration	2
Concealing stolen property	1
Violation Board of Health rules	6
Deserters from Army and Navy	2
Failing to file questionnaire	1
Indecent language	1
Unlicensed dog	1

DISPOSITION OF CASES

Essex County Training School	1
Returned to Army	2
Continued	8
Committed to House of Correction	5
Committed to insane asylum	5
Discharged	18
Held for Grand Jury	2
Paid fines	25
On probation	18
On file	18
Committed to State Infirmary	3
Defaulted	3
To Lyman School	1
To Shirley School	1

MISCELLANEOUS

Fines paid in lower court	\$ 302.00
Burglaries reported	18
Doors found open and secured	71
Dogs killed	44
Value of property stolen	2900.00
Value of property recovered	2000.00
Value of Police equipment	500.00

SUPERIOR COURT FINDINGS

Nol-prossed	2
On probation	2
No bill found	3
Held for trial	1
Cases pending	2

Respectfully submitted,

FRANK M. SMITH

Chief of Police

SPRING GROVE CEMETERY

Your trustees are again called upon to record the loss of one of their valued and esteemed members during the year, John W. Bell, a man who gave much of his time, counsel and assistance to the development of the cemetery.

At the annual meeting last March an appropriation of \$1500 was granted to the trustees for the purpose of resuming the work commenced in 1917 on the east side. Fifty-five lots were laid out and considerable construction work on avenues was done this last year. Nearly half of the lots laid out have already been sold and your Board of Trustees ask for an appropriation of \$2000 in addition to the regular appropriation of \$1000, and the proceeds from the sale of lots and other receipts for work done in the cemetery.

GEORGE D. MILLETT
WALTER I. MORSE
DANIEL H. POOR
WARREN L. JOHNSON
JOHN W. STARK
FRED E. CHEEVER

Board of Trustees

SPRING GROVE CEMETERY STATISTICS

Lots sold as per last report	466
Lots sold in 1918	17
	<hr/>
Total lots sold	483
Total number of single graves sold	185
Interments as per last report	1326
Interments in 1918	81
	<hr/>
Total interments	1407

W. I. MORSE

Clerk of Board of Trustees

December 31, 1918

TREE WARDEN'S REPORT

The trees in the center of the town are in good condition. We have done some trimming, removed dead trees, and planted some that were needed. I would like to call attention to the growth of brush in the outlying districts, which has grown so close to the road that it is impossible for vehicles to pass each other in safety. I have had numerous complaints regarding this, and would ask the town to appropriate the sum of \$500 to be used by the Tree Warden to improve these conditions.

Respectfully submitted,

EDWARD H. BERRY

Tree Warden

REPORT OF MOTH SUPERINTENDENT

I am pleased to say that the Browntail Moth is now almost extinct and there is also a steady decrease in the Gypsy Moth nests this season in the residential section of the town, as during the spraying season good weather prevailed, with good results in the decrease of nests. Owing to the high cost of material and shortage of labor, we were obliged to curtail on the amount of work to be done in the outlying districts. I am a firm believer in spraying for the suppression of all leaf-eating insects, and I would recommend that that branch of the work be continued, as it is the most economical way to handle this pest, and in order that the condition of the town shall continue, I would ask that the sum of \$3500 (thirty-five hundred dollars) be appropriated for this department.

Respectfully,

J. H. PLAYDON

Local Moth Superintendent

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen.

GENTLEMEN:— I hereby submit my report for the year beginning November 15, 1917, and ending November 15, 1918.

Number of cattle inspected	1359
Number of stables inspected	156
Number of cows condemned because affected with tuberculosis	16
Number of stables disinfected	16
Number of interstate cattle identified and released	95

Respectfully submitted,

CHARLES H. NEWTON

Inspector of Animals

CORNELL FUND

RECEIPTS

Amount of Fund		\$5000.00
Deposited in Savings Banks		5000.00
Balance from last account	\$42.64	
Income	237.50	
	<hr/>	280.14

EXPENDITURES

Paid for coal and wood	\$127.28	
Balance on hand	152.86	
	<hr/>	280.14

W. D. WALKER
C. N. MARLAND
J. C. ANGUS

Trustees

BOARD OF HEALTH

The work of the Board of Health for the year 1918 has not differed materially from the routine work during the past five years, with the exception of the additional duties of co-operative effort during the influenza epidemic.

Many public nuisances have been permanently abated. The Board in several instances has been obliged to take individual cases into court, where property owners either would not, or could not carry out the injunctions of the Board. In the abolishment of dwellings unfit for human habitation the Board has endeavored to promote physical well-being as distinguished from conditions which merely secure escape from disease. If our town is to secure that immunity from disease for which it should strive, there are at least five great routes for the dissemination of disease germs in which it is concerned, viz: water, food, milk, flies, and contact. The matter of sewage disposal, so far as it is a sanitary consideration, is being well taken care of by the Board of Public Works. In the Frye Village district several problems in sewage disposal have been brought to the attention of your Board, and the problem as a whole should be given immediate attention.

The inspection of milk is each year becoming of increased importance, and your Board particularly desires, the coming year, to add a new Babcock milk tester to its equipment.

We present here a table of the contagious diseases occurring in 1918:

Chicken Pox	10
Diphtheria	7
Ophthalmia	1
German Measles	197
Measles	112
Mumps	23
Tuberculosis	6

Scarlet Fever	8
Typhoid Fever	3
Whooping Cough	13
Cerebro Spinal Meningitis	3
Dysentery	1
Lobar Pneumonia	14
Influenza	1503
	<hr/>
	1901

DEATHS

Tuberculosis	8
Lobar Pneumonia	6
Influenza	25
	<hr/>
	39

It will be noticed that our town has been fortunate in at least two respects during the year. We have escaped an epidemic of contagious diseases that are as a rule, considered especially dangerous to life; and compared with the death-rate throughout the state from influenza, our percentage has been remarkably low. In the first instance we feel that much credit is due our physicians for an early diagnosis of the disease, and for prompt isolation. In the second instance we can but feel that the immediate closing of schools, churches and the public library had a marked influence in calling the attention of our townspeople to the danger of making light of what proved to be a dangerous disease.

The late George W. Garland M. D., a pioneer, as well as a leader in the practice of medicine in Lawrence, Mass., once read a paper before a section of the Massachusetts Medical Society, entitled, "There remains much yet to be learned". Dr. Garland combined with his rare skill as a physician, the attributes that made him during his professional life the typical family physician, a type which in the larger municipalities and towns at least, is rapidly becoming a matter of history. This fact is not due to a lack of medical men of repute, ability and conscientious attention to the duties of the profession, but rather to the onward tendency towards specialism. The matter of public sanitation and

its administration was left at this period largely in the hands of men who had to do mainly with the administration of public affairs in general, with the help of such laws as were at the time on the public statutes. During the past twenty-five years, much has been learned, and much has been done, to aid in the care of individual and public health. It is to be hoped that the factor of specialism may not enter too largely into the work of the State's health administration. That which in surgery is termed the "end results" should be made a potent topic for consideration, as well as bacteriological findings, and the compilation of statistics and percentages. With this in view we trust that the coming year may see the State Department of Health empowered with funds to make special study of the question of Social Service work as an aid to local Boards of Health. This matter has been particularly brought to the attention of your Board during the epidemic of influenza which carried with it, not only individual loss of life, but social and economic conditions in public life, such as rarely visit communities. It was found that the diagnosis and treatment of the disease was but a part of the physician's work. It devolved upon him in many cases to take over a considerable responsibility in the care and adjustment of family affairs, and it is to the credit of the physicians throughout our state and country that they were not lacking in the attributes which make for the true family physician. Your Board of Health finds it difficult in mere words to express its gratitude, or voice the sentiments of our townspeople, in regard to the noble work done by organized effort, and individual care, in the administration of relief to the distressed and suffering families in our town. Not only has there been most hearty co-operation by members of the different organized bodies of men and women, but a spirit of chivalry has been shown second only to that which dominated our citizens in their attitude during the struggle which menaced the peace, not only of our country, but of the world. It would not be difficult, and yet the list would be long, to cite names of men and women who have sacrificed time, money, and even health, in this work. It is also to their credit that the spirit of neighborliness, which unfortunately has had a tendency to be classed with the lost arts, has again been brought to the surface.

We cannot too strongly commend to our citizens the advice so often brought to their notice by the State Department of Health and its agents. It is a well-known fact that free advice is not as a rule, well taken. Remember then, that all this good advice though given freely, is not entirely free, you are paying for it through the usual channel of taxation; consider it as you would a part of your life insurance.

The percentage of deaths in the total population of a community may be used as a guide to the healthfulness of that community, but there are many other considerations to be thought of. Public sanitation and infant mortality are two subjects which are from year to year being given more attention. The percentage of deaths from all diseases, and from contagious diseases, is an interesting and valuable study, but the percentage of death itself is always 100%. This is the "end result" which the conscientious physician, the Board of Health, and the painstaking State Department of Health are striving to guard against. To this end, it is not entirely a matter of bacteriological findings, statistics, care and treatment of the patient, but also the study and care of social and economic conditions. Your Board would therefore, ask you to study with care and deliberation, the various bills in regard to matters concerning public health which are from time to time brought up for consideration by the legislature of our state. The public as a whole, suppose that *somebody* is looking after these matters. They should realize that the entire responsibility does not rest on any one person or department. The conservation of health, like the conservation of food or money, should be made a matter of personal study.

Your Board would commend, and ask you to support in every way the employment of a school nurse. It is a physical impossibility for a school physician, however much his interest may center in the public schools, to give the time and attention to this department which the subject merits. The school nurse is his aid.

The work of the district nurse has become too wellknown, and is without question, of such inestimable value, that from whatever source her financial support may be obtained, the work should be carried on and encouraged.

As we have already said, it would be an impossibility to record the beneficent work which has been done during the past year by organized charity, private administration, and Social Service workers.

The work of the Andover Public Safety Committee in its various departments, has at all time received the encouraging support of our townspeople. An attempt was made to so enlarge its Health Committee that the several existing organizations in town, all with fundamentally the same object in view, should be represented, and thus so far as possible, prevent friction and the overlapping of work. The chairman of the committee would take this opportunity to publicly express his sincere appreciation of all the work so faithfully and unselfishly carried out by the members of that committee in conjunction with the work of the Red Cross and Public Health Association. The results of this work were seen in the manifest relief of much physical suffering, and was in many instances a source of financial aid to families in distress during the influenza epidemic. Much has been learned and "There remains much yet to be learned".

In asking an appropriation of \$2000 for the current year, we have in mind \$1300 for ordinary expenses, and \$700 for the support of cases of tuberculosis and contagious diseases that have in years past been under the jurisdiction of the Overseers of the Poor.

Respectfully submitted,

FRANKLIN H. STACEY, Chairman

BANCROFT T. HAYNES

CHARLES E. ABBOTT, M. D., Secretary

Board of Health

SCHEDULE OF TOWN PROPERTY

Town House, fixtures and furniture	\$50000.00	
Engine house, storehouse and barn	25000.00	
25723 feet land	20000.00	
	<hr/>	\$95000.00
Memorial Hall	30000.00	
22318 feet land	10000.00	
	<hr/>	40000.00
Engine house, Ballardvale	6000.00	
New shed	200.00	
1-3 acre land	250.00	
	<hr/>	6450.00
Almshouse	16000.00	
Barn and other buildings	3800.00	
31 1-2 acres land	5000.00	
	<hr/>	24800.00
Punchard High School	94000.00	
4 acres land	8000.00	
	<hr/>	102000.00
Heating plant, Jackson schoolhouse	30000.00	
John Dove schoolhouse	25000.00	
Stowe schoolhouse	31000.00	
3 3-4 acres land	6000.00	
	<hr/>	92000.00
Bradlee schoolhouse, Ballardvale	23000.00	
1 acre land	500.00	
	<hr/>	23500.00
Richardson schoolhouse	7000.00	
1-2 acre land	400.00	
	<hr/>	7400.00
	<hr/>	
<i>Amount carried forward</i>		\$391150.00

<i>Amount brought forward</i>		\$391150.00
Indian Ridge schoolhouse	\$17000.00	
1 acre land	800.00	
	<hr/>	17800.00
West Center schoolhouse	3500.00	
1-2 acres land	150.00	
	<hr/>	3650.00
North District schoolhouse	3500.00	
1-2 acre land	50.00	
	<hr/>	3550.00
Bailey District schoolhouse	2500.00	
1-2 acre land	50.00	
	<hr/>	2550.00
Osgood District schoolhouse	2000.00	
1-2 acre land	50.00	
	<hr/>	2050.00
Old Schoolhouse, Ballardvale	3000.00	
1-4 acre land	500.00	
	<hr/>	3500.00
9 acres, Indian Ridge (Gravel Pit)		3000.00
41 1-2 acres, Carmel Woods Reservation		3600.00
173,751 sq. ft. land, Central Park (Richardson Field)		15000.00
6 1-2 acres Playstead		5000.00
Bandstand		1000.00
Andover Board Public Works—		
Pipe-lines and fountains	248000.00	
Pumping-station and buildings	42500.00	
Coal shed	700.00	
3 acres land	800.00	
20 acres Boston Ice Co. land	2500.00	
2 reservoirs	16000.00	
4 1-2 acres land	2350.00	
Machinery and tools	1000.00	
Stone-breaker and engine	2000.00	
	<hr/>	
<i>Amount carried forward</i>	\$315850.00	451850.00

<i>Amount brought forward</i>	\$315850.00	451850.00
Steam road roller	1000.00	
Pump-house, east side No. Main St.	5000.00	
3 sleds	75.00	
1 auto	300.00	
3 horses	800.00	
Carts and harnesses	200.00	
Sewer System	253000.00	
Workshop, Lewis Street	1600.00	
Barn and shed, Lewis Street	3000.00	
47467 ft. land, Lewis Street	3000.00	
	<hr/>	583825.00
		<hr/>
		1035675.00
Punchard School Fund		76454.28
Memorial Hall, Permanent Fund	\$45000.00	
Memorial Hall Library, John Cornell Fund	7700.00	
Memorial Hall Library, John Byers Fund	10000.00	
Memorial Hall Library, Edward Taylor Fund	500.00	
Memorial Hall Library, Isaac E. Giddings Fund	3000.00	
Memorial Hall Library and furniture	10000.00	
Memorial Hall Library, Woman's Christian Temperance Union	100.00	
Memorial Hall Library, Phillips Fund	3200.00	
	<hr/>	79500.00
Personal Property at Town Farm		3800.00
Motor Combination Chemical Truck		5300.00
Motor Combination Pump and Truck		9000.00
One Steam Fire Engine and apparatus		2800.00
Hook and Ladder Truck		1000.00
Two hose wagons		1000.00
		<hr/>
<i>Amount carried forward</i>		\$1214529.28

<i>Amount brought forward</i>		\$1214529.28
Hose sled		60.00
Four horses		1000.00
Hay scales		350.00
Safes in Town House		800.00
41 1-2 acres of land, Spring Grove Cem'y	\$7500.00	
Receiving-tomb and tool-house	1500.00	
	<hr/>	9000.00
Weights and measures		350.00
Fire Alarm apparatus		4500.00
4000 ft. hose		2000.00
		<hr/>
		\$1232589.28

REPORT OF TAX COLLECTOR

To the Board of Assessors:

The following is the Report of the Collector of Taxes for the year ending December 31, 1918.

1915

Amount as per warrant		\$3213.12
Added to warrant		36.60
Moth work		49.90
Street sprinkling		13.08
Interest		461.90
Collected taxes	\$2854.25	
Collected moth work	49.90	
Collected street sprinkling	13.08	
Collected interest	461.90	
Abated	395.47	
	<hr/>	<hr/>
	\$3774.60	\$3774.60

1916

Amount as per warrant		\$10303.15
Added to warrant		5.78
Street sprinkling		66.21
Moth work		101.90
Interest		756.26
Collected taxes	\$7051.88	
Collected street sprinkling	66.21	
Collected moth work	101.90	
Collected interest	756.26	
Abated	579.82	
Uncollected	2677.23	
	<hr/>	<hr/>
	\$11233.30	\$11233.30

1917

Amount as per warrant		\$29179.98
Added to warrant		10.47
Moth work		199.25
Street sprinkling		271.23
Interest		793.42
Collected taxes	\$19014.67	
Collected moth work	199.25	
Collected street sprinkling	271.23	
Collected interest	793.42	
Abated	356.04	
Uncollected	9817.74	
Add for error in warrant	2.00	
	<hr/>	<hr/>
	\$30454.35	\$30454.35

1918

Amount as per warrant		\$182451.10
Added to warrant		65.27
Moth work		2363.55
Street sprinkling		846.55
Interest		73.95
Collected taxes	\$148464.04	
Collected moth work	2363.55	
Collected street sprinkling	846.55	
Collected interest	73.95	
Abated	209.79	
Uncollected	33842.54	
	<hr/>	<hr/>
	\$185800.42	\$185800.42

SUMMARY COLLECTOR'S CASH ACCOUNT, 1918

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Street Sprinkling</i>	<i>Interest</i>	<i>Total</i>
1915	\$ 2854.25	\$ 49.90	13.08	\$ 461.90	\$ 3379.13
1916	7051.88	101.90	66.21	756.26	7976.25
1917	19014.67	199.25	271.23	793.42	20278.57
1918	148464.04	2363.55	846.55	73.95	151748.09
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$177384.84	\$2714.60	\$1197.07	\$2085.53	\$183382.04

GEORGE A. HIGGINS

Collector, protem

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (10000 due 1919)	\$102000.00
Water Bonds, 3½% (3000 due 1919)	44000.00
Sewer Bonds, 4% (15000 due 1919)	100000.00
And'r Loan Bonds, 4% (5000 due 1919)	10000.00
High School Loan, 4% (6000 due 1919)	99000.00
	<hr/> \$355000.00

Assets

Cash, General Fund	\$14251.67
Cash, Water Loan	5026.59
Cash, Sewer Loan	356.59
Cash, Sewer Assessments	3980.72
	<hr/> 23615.57
Uncollected taxes	46337.51
Street sprinkling	199.37
Moth work	413.05
	<hr/> 46949.93
Commonwealth, State Aid	1949.00
Commonwealth, pauper account	232.83
Cities and Towns, Mothers' Aid	510.66
Commonwealth, Mothers' Aid	540.67
Sewer Assessments	5590.90
Unpaid Water Rates of January 1	6028.03
Sinking Funds	63889.29
	<hr/> 78741.38
Balance against Town	205693.12
	<hr/> \$355000.00

GEORGE A. HIGGINS, Treas., in

DR.

Balance Jan. 1, 1918, General Fund	\$5648.10
Balance Jan. 1, 1918, High School Loan	1742.28
Balance Jan. 1, 1918, Water Loan	5026.59
Balance Jan. 1, 1918, Sewer Loan	356.59
Balance Jan. 1, 1918, Abbott Village Sewer Ass'm't	5776.13
Commonwealth, Corporation Tax	23310.64
Commonwealth, Bank Tax	7770.04
Commonwealth, Income Tax	27580.17
Commonwealth, Reimbursement taxes on land	70.08
Commonwealth, Soldiers' Exemption	104.08
Commonwealth, State Aid	1230.00
Commonwealth, School Tuition	244.50
Commonwealth, Industrial School	89.96
Commonwealth, Mothers' Aid	552.50
Commonwealth, Hospitals for Comsumptives	114.29
Commonwealth, Contagious Diseases	123.50
Commonwealth, Pauper Account	27.86
Commonwealth, Temporary Aid	94.29
Commonwealth, Highway Com., Lowell St.	5000.00
Commonwealth, Highway Com., Moth Work	24.00
Commonwealth, Hawkers' Licenses	65.00
Essex County, Lowell Street	5000.00
Essex County, Dog Tax	621.13
Essex County, killing dogs	44.00
Andover National Bank, Notes	100000.00
Collector's Department, Taxes	177384.84
Collector's Department, Interest on Taxes	2085.53
Collector's Department, Street Sprinkling	1197.07
Collector's Department, Moth Work	2714.60
Collector's Department, Interest on Deposits	133.28
Board of Public Works, Water Rates	27053.04
Board of Public Works, Service Pipe	2448.96
<i>Amount carried forward</i>	<i>\$403633.05</i>

account with the Town of Andover

C.R.

Orders paid

Schools	\$60789.52
New High School	1827.21
Highway Department	26804.00
Lowell Street	14999.46
Park Department	1496.65
Street Lighting	6262.39
Police	4873.50
Fire Department	11407.58
Brush Fires	687.85
Printing and Stationery	1379.50
Insurance	4167.89
Miscellaneous	1185.74
Town House	3157.36
Town Officers	6738.15
Spring Grove Cemetery	4363.99
Board of Health	1387.85
Moth Work	5522.89
Tree Warden	427.70
Public Dump	75.00
Hay Scales	103.73
Interest on Notes and Bonds	18372.06
Memorial Day	350.00
Special G. A. R. Appropriation	100.00
Memorial Hall Library	1800.00
Memorial Hall Library, Dog Tax	621.13
Old Schoolhouse, Ballardvale	250.00
Almshouse Expenses	5411.94
Almshouse Repairs	148.11
Relief out of Almshouse	3766.56
Soldiers' Relief	1025.77
State Aid	1949.00

Amount carried forward

\$191452.53

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$403633.05
Board of Public Works, Highway Department	1133.97
Board of Public Works, Sidewalk Assessments	672.49
W. C. Crowley, Sealer's Fees	47.83
George A. Higgins, Town Clerk, Fees	128.00
Board of Health, Slaughter Licenses	3.00
Board of Health, Garbage Licenses	2.00
F. H. Stacey, Milk Licenses	9.50
J. H. Playdon, Moth Supplies	65.00
Old Schoolhouse, Ballardvale, rents	187.50
Colver J. Stone, Trial Justice, Fines	84.00
Almshouse	1355.43
Spring Grove Cemetery, Sale and Care of Lots	1969.03
Town House, Rents	182.75
School Dept., Tuition and Supplies	461.29
Hay Scales	81.35
Tree Warden, Sale of Lumber	36.96
Cities and Towns, Pauper Account	57.85
Cities and Towns, Mothers' Aid	126.67
Cities and Towns, Board of Health	16.30
Fire Department, Use of Horses	1437.70
Fire Department, Rent of Shed	50.00
Sewer Department, Assessments	4052.73
Sewer Department, Interest on Assessments	309.56
Andover National Bank, Interest on Deposits	775.41
Andover Nat'l Bank, Interest on High School Loan	59.93
High School Loan, Sale of Radiators	25.00
High School Loan, Balance to Treasury	8.33
Brush Fire Department	123.90
Insurance Dividends	39.64
Phillips Academy, Street Lighting	230.00
Total Receipts	\$417366.17

account with the Town of Andover

CR.

<i>Amount brought forward</i>	\$191452.53
Mothers' Aid	1435.00
Retirement of Veterans	300.00
Redemption 13 Water Bonds	13000.00
Redemption 5 Andover Loan Act Bonds	5000.00
Redemption 5 Sewer Bonds	5000.00
Redemption 6 High School Bonds	6000.00
Water Department	20037.02
Pump and Motor	2149.78
Sewer Department	2499.13
Treasurer Sinking Funds, sewer assessments	990.13
Sewer Sinking Funds	1000.00
Water Sinking Funds	750.00
County Tax	15597.70
Commonwealth, State Tax	22000.00
Commonwealth, Bank Tax	1909.81
Commonwealth, Highway Tax	4629.50
Andover National Bank, Notes	100000.00
	<hr/>
Total Expenditures	393750.60
Balance on hand Jan. 1, 1919	
General Fund	14251.67
Water Loan	5026.59
Sewer Loan	356.59
Abbott Village Sewer Assessments	3980.72
	<hr/>
	\$417366.17

Richardson Fund—Frye Village School

DR.

Balance January 1, 1918	\$1203.41	
Andover Savings Bank, interest	57.82	
	<hr/>	\$1261.23

CR.

Hampshire Bookshop	1.44	
W. A. Allen	5.75	
Deposit, Andover Savings Bank	1254.04	
	<hr/>	1261.23

Draper Fund—School

DR.

Balance January 1, 1918	\$1214.15	
Andover Savings Bank, interest	58.34	
	<hr/>	1272.49

CR.

J. H. Playdon	124.70	
Deposit, Andover Savings Bank	1147.79	
	<hr/>	1272.49

Edward Taylor Fund—Fuel

DR.

Balance January 1, 1918	248.21	
Andover Savings Bank, interest	11.90	
	<hr/>	260.11

CR.

Deposit Andover Savings Bank	260.11	
	<hr/>	260.11

Varnum Lincoln Spelling Fund

DR.

Balance January 1, 1918	521.72	
Andover Savings Bank, interest	24.07	
	<hr/>	545.79

CR.

H. C. Sanborn, Supt. of Schools	20.00	
Deposit Andover Savings Bank	525.79	
	<hr/>	545.79

Isaac E. Giddings Burial Ground Fund

DR.

Balance January 1, 1918	1000.00	
Andover Savings Bank, interest	48.05	
	<hr/>	1048.05

CR.

F. L. Brigham, Treas. South Cemetery	48.05	
Deposit Andover Savings Bank	1000.00	
	<hr/>	1048.05

Cemetery Funds

DR.

Balance January 1, 1918	18883.64	
Andover Savings Bank, interest	911.64	
Deposits for Perpetual Care	637.50	
Andover National Bank Stock	200.00	
Andover National Bank Dividends	12.00	
Cash	60.00	
	<hr/>	20704.78

CR.

Paid for care of lots	702.65	
Deposits, Andover Savings Bank	19738.13	
Andover National Bank Stock	200.00	
Cash	64.00	
	<hr/>	20704.78

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$14251.67
Water Loan	5026.59
Sewer Loan	356.59
Abbott Village Sewer Assessments	3980.72

\$23615.57

NESBIT G. GLEASON
JOHN S. ROBERTSON
WALTER H. COLEMAN

Auditors

RECOMMENDATIONS OF FINANCE COMMITTEE

The Finance Committee herewith submits its recommendations for the ensuing year. Last year your Committee approved only such appropriations as were, in its judgment, absolutely needed to maintain, without extensions, the several town departments. In the opinion of your Committee, this policy should not be continued. Some improvements should be made this year.

Except as noted, the recommendations of the Committee are unanimous.

Almshouse expenses	\$ 4500
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Almshouse repairs	300
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(The recommendations of the Overseers of the Poor, concerning the Almshouse property should receive the especial attention of the citizens.)

Relief out of Almshouse	4000
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Aiding Mothers with Dependent Children	2500
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(This increase (\$2000) is due to the provisions of Chapter 763 of the Acts of 1913. One-third is refunded by the State.)

Board of Health	2000
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(The increase (\$500) is due to the increase in number of patients committed to State Tuberculosis Sanitoriums. The Committee learns from the Board of Health, with surprise, that no proper inspection of milk has been made during the past three years. It would suggest that this important matter receive the attention of the Board.)

Brush Fires	600
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<i>Amount carried forward</i>	\$13900
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<i>Amount brought forward</i>	\$13900
Fire Department	10000
(The increase (\$600) is due to an increase in wages of the permanent men.)	
Hay Scales	125
Highway Department, sidewalks, snow	50000
(This sum allows \$25000 for maintenance, the balance for new construction outlined by the Board of Public Works. The Board of Public Works has established the policy of reconstructing a limited number of roads each year. The Finance Committee approves this policy, and believes it should receive the financial support requested this year.)	
Two dissenting votes were recorded.	
Insurance	2000
Insurance (Workmen's Compensation)	2500
(This sum is based entirely upon amount of payroll. The increase (\$900) is due therefore to the increase in wages of employees.)	
Interest	17000
Memorial Hall Library	2000
(The increase (\$200) is due to increase in wages.)	
Memorial Day	\$ 350
Post 99, G. A. R.	100
Miscellaneous	3000
Parks and Playsteads	1200
Police	6200
(This increase (\$1700) provides for	
(a) an additional officer, and	
(b) an equitable increase in wages.)	
Printing and Stationery	1400
Public Dump	75
Retirement of Veterans, Acts 1912	300
<i>Amount carried forward</i>	\$110150

<i>Amount brought forward</i>	\$110150
Redemption of Water Bonds	13000
Redemption of Punchard School Bonds	6000
Redemption of Andover Loan Act Bonds	5000
Redemption of Sewer Bonds	1000
Schools (To include receipts)	60000
Sewer Department Maintenance	2500
Sewer Department Sinking Fund	1000
Soldiers' Relief	1500
(Committee feels that cause for increase (\$400) is well understood and that any comment is not necessary.)	
Spring Grove Cemetery	3000
(The increase (\$500) provides for necessary extension and preparation of new lots.)	
State Aid	2500
Street Lighting	6500
Town Officers	7600
(This increase (\$700) provides for the salary of a building inspector, and an increase in salaries of the Treasurer and Auditors.)	
Town House	2500
Tree Warden, Gypsy & Browntail Moth Dept.	3500
(The bulk of this amount recommended — \$3250, is decreed by the State Forester; the balance is for the use of the Tree Warden.)	
Water Department	
Maintenance	14000
Construction	2000
(This increase (\$200) provides for the further installation of water meters.)	
Sinking Fund	750
Total	\$242500

Article 5. Not approved. (The sum of \$4125 is recommended, provided the County pays 45% of the cost of construction estimated at \$7500.) This recommendation is not unanimous, two (2) dissenting votes being recorded.

Article 6. Approved. (The recommendation provides for carrying out an understanding between the State, County and Town, by which each interest should contribute an equal amount each year for this work until completed.) This recommendation is not unanimous, two (2) dissenting votes being recorded.

Article 7. Referred to Board of Public Works. This recommendation is not unanimous, one (1) dissenting vote being recorded.

Article 8. Not approved. This recommendation is not unanimous, one (1) dissenting vote being recorded.

Article 9. Not approved. Suggest to refer to Board of Public Works.

Article 10. Approved.

Article 12. Approved. Recommend sum of \$250 therefor.

Article 13. Not approved. Suggest refer to Lighting Committee.

It is estimated that if the recommendations and appropriations are approved, the tax rate for the year 1919 will be approximately \$25.50 per thousand.

Respectfully submitted,

HARRY M. EAMES
SAMUEL H. BOUTWELL
GEORGE ABBOT
CHESTER W. HOLLAND
JOHN H. CAMPION
WALTER M. LAMONT
FREDERIC G. MOORE
HENRY W. BARNARD
BARNETT ROGERS

Finance Committee

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover: GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on MONDAY, the THIRD DAY OF MARCH, 1919, at 6 o'clock a.m., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk, for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, Seven Trustees of Spring Grove Cemetery for three years, and any other officers the town may determine to chose.

Article 2.—To take action on the following question, Shall licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High

School, and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will vote to change Article V, Sec. 1, of the By-Laws, to read as follows:

Section 1. All articles in any warrant involving the expenditure, appropriation, raising and borrowing of money, including all necessary current expenses and all special appropriations of any sort whatsoever shall be referred to and considered by a "Finance Committee". This committee shall be constituted as follows:

Seven voters to be appointed by the Moderator upon the first day of the annual Town Meeting, none of whom shall hold any town office. This committee shall have power to fill vacancies that occur in their number during their term of office and shall continue in office for one year and until their successors are chosen, by petition of Barnett Rogers and others.

Article 5.—To see if the town will authorize the expenditure of a sum not exceeding \$7500, for widening Essex Street Bridge over Shawsheen River, according to plans prepared and submitted by the Essex County Engineer, provided the County assumes, as agreed, 45% of the cost, on petition of the Board of Public Works.

Article 6.—To see if the town will appropriate a sum not exceeding \$7500, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 7.—To see if the town will appropriate the sum of \$609, the cost of extending the curbing on North Main Street from a point formerly the corner of North Main and Poor Streets; the purpose being to reimburse the abutter for this expense, on petition of the Board of Public Works.

Article 8.—To see if the town will appropriate the sum of \$3000 for additions to filter-beds as requested by the State Department of Health, on petition of the Board of Public Works.

Article 9.—To see if the town will appropriate \$3500 to repair, drain and put in condition for travel the Bailey Road from the Tewksbury line and Pleasant Street to the River Road, on petition of William M. Flint and others.

Article 10.—To see if the town will appropriate a sum not exceeding \$500 to put the room adjoining the new Community Room in the Old Schoolhouse in Ballard Vale and the entrance thereto in proper condition for occupancy, it being understood that the Selectmen may grant the use of this room to the Ballard Vale Village Improvement Society under such conditions as they may approve, on petition of William Shaw and others.

Article 11.—To see if the town will appoint a committee to consider providing a suitable memorial in honor of the men from Andover who have served in the recent European War; or take any other action regarding the same, on petition of John N. Cole and others.

Article 12.—To see if the town will vote to install a fire alarm box on Cuba street near Indian Ridge School and appropriate a sum of money therefor, on petition of James Eaton and others.

Article 13.—To see if the town will vote to place five street lights on Argilla Road, one at the Brook between Mrs. George Baker's and Charles Baker's, one at the turn between Charles Baker's and Wallace Ward's, one between Wallace Ward's and George Rennie's, one between George Rennie's and Mr. Jameson's, one between Mr. Jameson's and Lowell Road and appropriate a sum of money therefor, on petition of Henry E. Miller and others.

Article 14.—To see if the town will vote to call the public park Daly Park in honor of Michael Joseph Daly, the first Andover boy who was killed fighting for his Country in the European War, on petition of Frank S. McDonald and others.

Article 15.—To see if the town will accept Chapter 423, Acts of 1909 and amendments thereto, entitled: An act relative to the sale of ice cream, confectionery, soda water and fruit on the Lord's Day, on petition of Paul Simeone and others.

Article 16.—To see if the town will vote to amend its By-Laws by inserting under Article 4 thereof, the following Sections to be numbered 12 and 13.

Section 12.—The Selectmen may, as provided by Section 29 of Chapter 102 of the Revised Laws of Massachusetts as amended by Section 18 of Chapter 291 of the General Acts of 1918, license suitable persons to be collectors of, dealers in, or keepers of shops for the purchase, sale, or barter of junk, old metals or second-hand articles.

Section 13.—A license fee of Five (\$5.00) dollars shall be charged for such license and paid to the Town Clerk when the applicant receives his license.

Article 17.—To see if the town will vote to accept the provisions of Chapter 293, Acts of 1916, relative to the licensing by Towns of Motor Vehicles carrying passengers for hire.

Article 18.—To fix the pay of the firemen for the ensuing year.

Article 19.—To determine the method of collecting the taxes for the ensuing year.

Article 20.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 21.—To determine what disposition shall be made of unexpended appropriations.

Article 22.—To act upon the report of the Town Officers.

Article 23.—To determine the amount of money to be raised by taxation the ensuing year.

Article 24.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock a. m., and may be closed at 2 o'clock p. m.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this fourteenth day of February, A. D. 1919.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Selectmen of Andover

PUNCHARD FREE SCHOOL

SAMUEL H. BOUTWELL, *President*

HARRY H. NOYES, *Treasurer*

REV. E. VICTOR BIGELOW MYRON E. GUTTERSON

REV. C. W. HENRY HARRY M. EAMES

REV. NEWMAN MATTHEWS FRANK T. CARLTON

Trustees

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1918		
Cash in bank	\$ 4605.77	
Real estate mortgage and bonds	71848.51	
	<hr/>	\$76454.28
December 31, 1918		
Cash in bank	4980.77	
Real estate, mortgage and bonds	71473.51	
	<hr/>	76454.28
January 1, 1918		
Cash in bank	4605.77	
Mortgage paid during year	1375.00	
	<hr/>	5980.77
December 31, 1918		
Cash in bank	4980.77	
Investment in new mortgage	1000.00	
	<hr/>	5980.77

INCOME

January 1, 1918		
Cash in bank	1206.52	
Interest on mortgage and bonds	3298.33	
	<hr/>	4504.85

EXPENDITURES

N. C. Hamblin, Principal	570.00	
Edna G. Chapin, instructor	52.63	
Helen M. Dunn, instructor	905.00	
Sarah B. Coddington, instructor	540.00	
Natalie B. Upton, instructor	425.00	
Marjorie W. Faunce, instructor	300.00	
Edna G. Bennett, instructor	300.00	
Ella S. Morrill, instructor	20.00	
Rogers & Angus, insurance	25.00	
Andover National Bank, box rent	5.00	
Harry H. Noyes, treasurer	200.00	
F. E. Cheever, treasurer of Alumni Association	25.00	
Cash in bank	1137.22	
	<hr/>	4504.85

BARNARD FUND

January 1, 1918		
Cash in bank	\$25.50	
Dividends	40.00	
	<hr/>	65.50
Prizes awarded		
First	20.00	
Second	12.00	
Third	8.00	
Cash in bank December 31, 1918,	25.50	
	<hr/>	65.50

DRAPER FUND

January 1, 1918		
Cash in bank	1212 16	
Dividends	58.24	
	<hr/>	1270.40

GOLDSMITH FUND

January 1, 1918		
Cash in bank	252.36	
Dividends	12.12	
	<hr/>	264.48

HARRY H. NOYES, *Treasurer*

TOWN OF ANDOVER

JURY LIST

Abbott, Newton S.
Anderson, Burt M.
Angus, John C.
Averill, George L.
Bailey, Samuel H.
Barrett, Patrick J.
Bliss, Arthur
Boutwell, Winthrop S.
Burns, David F.
Burridge, George H.
Cates, A. Lincoln
Chambers, Joseph S.
Clark, Herbert
Cheever, Fred E.
Cole, Roscoe K.
Cole, Joseph F.
Cutler, Howard A.
Daley, James E.
Dane, Louis A.
Davies, Charles E.
Disbrow, George W.
Dunnells, George C.
Duval, James C.
Flanders, Charles W.
Flint, Edwin M.
Flint, John Houghton
Foster, Francis H.

Foster, William H.
Garland, George M.
Godin, John W.
Goff, Fred B.
Greenwood, Charles H.
Hannon, Patrick J.
Hannon, Lawrence J.
Hardy, Philip L.
Harrington, Daniel F.
Hess, Berton L.
Hill, Ira B.
Hilton, Everett C.
Holt, George A.
Holt, John V.
Holt, George E.
Hovey, James H.
Jackson, Arthur
Kendall, Frank H. E.
Leslie, Philip F.
Leslie, David C.
Lockhead, Robert
Lundgren, Alfred J.
Lynch, Joseph P.
Maddox, John
Mahoney, Timothy J.
May, George M.
May, James S.

Morgan, Charles W.
McCormack, Daniel J.
McGovern, Clarence F.
Morse, George E.
Mosher, James R.
Mooar, J. Warren
Michelini, Dionecio
Nolan, Joseph P.
Noyes, John L.
O'Connell, Walter J.
O'Hara, Robert W.
Platt, Henry W.
Poland, Austin

Riley, Joseph A.
Roggemann, Edward
Seacole, Walter H.
Scott, David
Sherry, Richard J.
Todd, Henry
Tyler, Charles F.
Tuttle, Benjamin B.
Valpey, Frank D.
Veit, Henry
Walker, Salmond C.
Whitman, David D.
Wrigley, Thomas

Valentine, Franklin S.

TRUSTEES OF MEMORIAL HALL LIBRARY

E. KENDALL JENKINS	ALFRED E. STEARNS
FREDERIC S. BOUTWELL	BURTON S. FLAGG
GEORGE F. SMITH	NATHAN C. HAMBLIN
FREDERICK A. WILSON	

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL

EDITH DONALD

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

RAY DEARBORN

MEMORIAL HALL LIBRARY

FORTY-SIXTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

The Trustees of the Memorial Hall Library have voted that the report of the Librarian be their official account of the activities of the library for the year 1918. The increasing needs of the work deserve careful consideration. The tributes to Professor Ryder and Mr. Carpenter we'll express the sense of loss felt by the trustees at the deaths of these loyal co-workers.

E. KENDALL JENKINS
BURTON S. FLAGG
ALFRED E. STEARNS
GEORGE F. SMITH
NATHAN C. HAMBLIN
FREDERIC S. BOUTWELL
FREDERICK A. WILSON

Trustees

TRUSTEES OF MEMORIAL HALL LIBRARY
In account with the Town of ANDOVER, MASS.

RECEIPTS

Balance from last year	\$2258.57
Town Appropriation	1800.00
Dog Tax	621.13
Income from Investments	3194.32
Fines, etc.	166.59
Funds to replace lost books	7.00
Gift	1.00
	<hr/>
Total	\$8048.61

EXPENDITURES

Salaries	\$3490.24
Lighting and Heating	512.64
Periodicals	184.55
Book Binding	223.60
Books	708.51
Repairs and Sundry Items	368.95
Insurance	326.30
Cash on hand	2233.82
	<hr/>
Total	\$8048.61

Statement of Income and Expense of the Trustees of Memorial Hall Library for the Year of 1918

RECEIPTS

	<i>Maint.</i>	<i>Books</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$2122.72	\$731.10	\$340.50	\$3194.32
Town Appropriation	1800.00			1800.00
Dog Tax	621.13			621.13
Fines	166.59			166.59
Gift, etc.		8.00		8.00
Total	\$4710.44	\$739.10	\$340.50	\$5790.04

EXPENSE

Salaries	\$3391.40		\$98.84	\$3490.24
Lighting and Heating	497.92		14.72	512.64
Periodicals	184.55			184.55
Book Binding	223.60			223.60
Books		\$708.51		708.51
Insurance	326.30			326.30
Sundry Items	301.72		67.23	368.95
Total	\$4925.49	\$708.51	\$119.79	\$5814.79
Unexpended Income		30.59	120.71	
Deficit for the year	215.05			24.75

Condition of Funds and Unexpended Income on hand Jan., 1919

	<i>Funds</i>	<i>Unex. Inc.</i>
Maintenance Fund	\$46600.00	\$569.01
Book Funds	17400.00	698.44
Cornell (Permanent)	5000.00	327.43
Cornell (Purchase)	3908.63	432.85
Special		64.94
Total	\$72908.63	\$2092.67

INVESTMENTS

Bangor & Aroostook R. R. 4s	\$11000.00
Boston Elevated Ry. Co., 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railway Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Michigan State Tel. Co., 5s	4981.25
Boston & Maine R. R., 4s	2000.00
Boston & Albany Equip. Trusts 4½s	2981.25
Mortgage on Real Estate	4000.00
Savings Banks	15308.63
Am. Tel. & Tel. Co., stock (4 shares)	571.50
Pacific Tel. & Tel. Co., 5s	1000.00
Principal Cash	141.15

Total	\$72908.63
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Income Cash on hand	2092.67
Principal Cash on hand	141.15

Total	\$2233.82
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FREDERIC S. BOUTWELL, *Treasurer*

I certify that I have examined and found correct the above statement as of January 14, 1919, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash has been verified and found correct.

BURTON S. FLAGG, *Auditor*

January 27, 1919

REPORT OF THE LIBRARIAN

To the Trustees of Memorial Hall Library:

GENTLEMEN: I herewith submit the report of the library for the twelve months ending December 31, 1918.

The number of books issued during 1918 for home use at the Memorial Hall was 33,352. At Ballardvale, 5753 were borrowed. In 1917, we issued 35,731, and Ballardvale circulated 6136.

These figures afford a basis for an interesting comparison. By order of the Board of Health, we were closed during the epidemic of influenza, from September 26th to October 28th. For a second shorter period during November, no young people under twenty-one were permitted to come to the library. Considering that the library was open but 276 days during 1918, as opposed to 304 in 1917, it will easily be seen that under normal conditions, we should have exceeded our record for the previous year, both at the main library and at Ballardvale, and that, in proportion to the time the library was open, its use has been greater. The month of November was especially busy. The period of closing was not without benefit, for it brought home to the town what Andover would be without a public library, and many expressions of appreciation were received when the borrowing of books was again permitted. During the time that it was closed, the library was thoroughly fumigated and cleaned.

We have done a large amount of war work during the year. We have collected and sent to Cambridge for distribution, 640 books for the soldiers, which, in addition to 893 volumes sent in 1917, means a big contribution for a town of this size. The books actually shipped are but a part of those collected, for not everything brought was suitable for the reading of a camp; the rest were distributed to mission schools or colored hospitals or otherwise disposed of. Only timely and interesting books were sent from Andover to the soldiers.

We have also distributed an immense amount of printed

literature from the government and from other agencies, on gardens and on food conservation of every kind. Our new bulletin board, changed every few days, has displayed material of this nature, together with bulletins of the Food Administration, Red Cross, Y. M. C. A. and Y. W. C. A. We have co-operated in every possible way with the town committees for relief work. Posters of every description have been put up in the library and we have done all in our power to aid publicity work.

The appeal for victrola records for camp use resulted in a large number being left at the library. Another special call was for Baedeker's guide-books, and many to whom the giving up of these relics of past European journeys was a real sacrifice, responded to the request from those whose need was greater. A very appreciative letter came from the War Department to the Library, thanking those who had been willing to render this patriotic service at the call of their country. If possible, these books are to be returned to their donors when no longer needed.

There has been a great demand for material on the war, and a very marked interest shown by boys and young men in these volumes. The library has taken pains to choose only those of some enduring value, either from an historical standpoint, or as having more than merely temporary interest. Our collection is therefore likely to remain of value through years to come. Many important pamphlets have come to us directly from the English government.

The usual lectures on the use of reference books were given to the high school sophomores this fall. Each group comes for four lectures and for practice work in using the books talked about. The series was not completed until late in December, due to interruption by the influenza. They are of undoubted value, as is proved by the great interest taken by the students and the pride with which they come afterwards to use a library, the resources of which they have never before quite appreciated. It is a discovery to most of them, that finding the answer to a question in a library book is as good as a game, neither stupid nor impossible, but real fun. The reluctance with which they leave at the end of the hour repays the librarian for her time and trouble. They come early, before the library is open to the public, and

when they can have the freedom of the reading-room. That we have but the one room for all purposes makes it necessary to place more restraint upon the young people than is wholly desirable, and if the period of reconstruction after the war should bring us the additional space our library so much needs, there must be a room especially for the children.

The death of Professor William H. Ryder has been a serious loss to the library. Though he had served as a trustee but a short time, his interest in the work of the Book Committee and his kindly personality left a gap not easily filled. During the year, Rev. Charles C. Carpenter also died. Although not a member of the Board at the time of his death, he had served as such for twenty-five years and the library will always show the result of his loving interest in the formation of the Phillips collection of religious books and in five volumes of clippings from the *Congregationalist*, being a complete collection of the notes and questions issued in the department conducted by Mr. Carpenter during the years that he was connected with that periodical.

Miss Charlotte H. Abbott has presented to the library a valuable collection of clippings on the Great War. In the absence of proper facilities for the use and display of this material, the library can at present only store them. The collection, in years to come, will grow in value as a contemporary record. The A. V. I. S. has provided a second copy of the *House Beautiful* for circulation.

One of the most interesting services that has ever taken place in the Memorial Hall was the dedication on November 9th, of the temporary tablet to the memory of the Andover men who fell in the Great War for Liberty. The building was taxed to its utmost capacity. Since the Memorial Hall itself is the town's tribute to its sons who served in the Civil War, the place was peculiarly appropriate for this service, and whatever form the permanent memorial to Andover's dead heroes may take, it is to be hoped it may form an integral part of the one that already stands for so much in the history of the town.

The high cost of living affects the library. Books and supplies of all kinds have greatly increased in price, as well as the cost of necessary labor. That we have been able to accomplish as much

during the year, as we have done, is due to great care and careful management on the part of the trustees and of the library staff. It is most desirable that at the next town meeting, the library appropriation may be made with a full realization that its expenses are increasing with those of every town department.

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	33352
Number of books issued at Ballardvale	5753
Total	39105
Percentage of fiction circulated	70
Percentage of non-fiction circulated	30
New borrowers registered	298
Actual number of cards in use	2676
Books added by purchase	716
Books added by gift	152
Total accessions	868
Books withdrawn, worn out, etc.	339
Total number of books in the library	24318
Volumes rebound	255
Volumes bound, periodicals, etc.	41

BALLARDVALE

Number of books issued for home use	5753
Percentage of fiction	80
Percentage of non-fiction	20
Number of cards in use	350
Books added during 1918	112
Books now belonging to the branch	1402

GIFTS TO THE LIBRARY

Gifts of books and pamphlets are acknowledged from state and government departments, from other libraries, the Andover Village Improvement Society and from the following individuals:

Miss C. H. Abbott; J. N. Ashton; Mrs. G. A. Betts; Mrs. J. N. Kidder; Andrew Lawrie; G. B. Ripley; Mrs. George Ripley; Rev. F. R. Shipman; Miss Elizabeth Smith; Miss M. B. Smith; Mrs. S. B. Stearns; Dr. Roger Tracy; Mrs. G. M. Whittemore.

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book". Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction, is specially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued many years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrange-

ment of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews

Atlantic monthly

Blackwood's magazine

Bookman

Book review digest

Catholic world

Century

Country gentleman

Christian Endeavor world (gift)

Country life in America

Cumulative book index

Etude

Forum

Garden magazine (gift)

Guide to nature (gift)

Harper's magazine

House beautiful (gift)

Independent

International studio (gift)

Ladies' home journal

Library journal

Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
Nation
National geographic magazine
New Republic
Nineteenth century
North American review
Outing
Outlook
Popular mechanics
Public libraries
Public The (gift)
Readers' guide to periodical literature
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Woman's Home Companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor (gift)
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1918

State and government documents and annual reports are not listed. Duplicates, replacements and books for the Ballardvale Branch are also omitted.

GENERAL REFERENCE BOOKS

- | | |
|------------|---|
| 027.2 A82 | *Ashton, J. N. The Salem Athenæum, 1810-1910. |
| 630.3 B15 | *Bailey, L. H. Standard cyclopedia of horticulture. 6v. |
| 394 B22 | *Bank and public holidays throughout the world. |
| 424 F39 | Fernald,, J. C., comp. English synonyms and antonyms. |
| 374 P51u | Phelps, E. M. ed. University debaters' manual, 1916-17. |
| 920.07 W62 | Who's who in America, 1918-19. |

PERIODICALS

- | | |
|-----------|--|
| 051 R32 | American monthly review of reviews, v. 57. |
| 051 A881 | Atlantic monthly, v. 120, 121. |
| 052 B56 | Blackwood's Edinburgh magazine, v. 202. |
| 051 B64 | Bookman, v. 46. |
| 051 C33 | Century, v. 94, 95. |
| 051 F77 | Forum, v. 58. |
| 051 H23 | Harper's magazine, v. 135, 136. |
| 705 H81 | House beautiful, v. 42, 43. |
| 051 I38 | Independent, v. 91-94. |
| 705 I61 | International studio, v. 63, 64. |
| 051 L71 | Littell's living age, v. 295-297. |
| 071 N21 | Nation, v. 105-106. |
| 910.5 N21 | National geographic magazine, v. 32. |
| 052 N62 | Nineteenth century, v. 82, 83. |
| 051 N81 | North American review, v. 206, 207. |
| 051 O94 | Outlook, v. 117, 118. |
| 621 P81 | Popular mechanics, v. 28, 29. |
| 020.5 P96 | Public libraries, v. 22. |
| 051 S147 | St. Nicholas, v. 44, pt. 2, 45, pt. 1. |
| 370.5 S35 | School arts magazine, v. 17. |
| 605 S416 | Scientific American, v. 117, 118. |
| 051 S434 | Scribner's magazine, v. 62, 63. |
| 305 S96 | Survey, v. 39. |
| 051 W89 | World's work, v. 34, 35. |

ETHICAL AND RELIGIOUS BOOKS

(Purchased chiefly from the Phillips Fund)

- | | |
|---------|--|
| 260 A81 | Ashley, W. B. comp. Church advertising. |
| 377 A86 | Athearn, W. S. Religious education and American democracy. |

*Gifts

- 290 B28 Barton, G. A. Religions of the world.
612 C23m Carroll, R. S. Mastery of nervousness.
237 G65 *Gordon, G. A. Witness to immortality.
173 H12 Hagedorn, Hermann. You are the hope of the world!
240 K58f King, H. C. Fundamental questions.
237 K63 Kirkland, Winifred. The new death.
922 K96 Kumm, H. K. W. African missionary heroes and hero-
 ines.
174 L24 Lane, F. K. The American spirit.
248 M11f Mabie, H. W. Fruits of the spirit.
261 M83 Morse, Richard. Fear God in your own village.
252 N73 Noontime messages in a college chapel.
252 O82 Osgood, P. E. Church year sermons for children.
377 P31 Peabody, F. G. Religious education of an American
 citizen.
267.3 R51 Ritchie, F. H. T. Community work of the Y.M.C.A.
209 S64 Smith, G. B. ed. Guide to the study of the Christian
 religion.
170 W69 Wilson, C. H. Talks to young people on ethics.
232.9 W69 *Wilson, P. W. The Christ we forget. •

GENERAL ECONOMICS

- 355 A99 Azan, Paul. Warfare of to-day.
338 E52f Ely, R. T. Foundations of national prosperity.
355 F19 Falls, DeW. C. Army and navy information.
334 H24 Harris, E. P. Co-operation the hope of the consumer.
327.4 H55 Hill, D. J. Rebuilding of Europe.
359 J13 Jackson & Evans. Marvel book of American ships.
347 O81 Osborne, W. H. How to make your will.
355 R39 Richardson, R. C. West Point.
325 S65 Smith, R. N. Emigration and immigration.
335 S73 Spargo, John. Americanism and social democracy.
327 W54 Weyl, W. E. American world policies.
355 W67 Williams, Dion. Army and navy uniforms and insignia.

BOOKS ON EDUCATION

- 174 B75 Brewster, E. T. Vocational guidance for the professions.
370.9 H25 Hart, J. K. Democracy in education.
373 I52 Inglis, Alexander. Principles of secondary education.
136 J43 Jennings, H. S. & others. Suggestions of modern science
 concerning education.
372.8 K33 Kendall & Stryker. History in the elementary school.
396 L47 Leake, A. H. Vocational education of girls and women.
780.7 M24 MacPherson, Stewart. Musical education of the child.
371 P27 Patri, Angelo. Schoolmaster of the great city.
371.4 P43 Pestalozzi, J. H. Leonard and Gertrude.
372.8 S61 Simpson, M. E. Supervised study in American history.

SCIENCE

- 573 D72t Dopp, K. E. Tree-dwellers.
573 D72e Dopp, K. E. Early cave-men.
573 D72l Dopp, K. E. Later cave-men.
573 D72s Dopp, K. E. Early sea people.
540 H38 Hendrick, Ellwood. Everyman's chemistry.
571 O81 Osborn, H. F. Men of the old stone age.
509 S44 Sedgwick & Tyler. Short history of science.

BOOKS FOR HOME AND FARM

- 630 B15f Bailey, L. H. Farm and garden rule book.
634 B15p Bailey, L. H. Pruning manual.
634 B35 Beach, S. A. & others. Apples of New York, 2v.
635 C87 Croy, M. S. Putnam's vegetable book.
635 D91h Duncan, Frances. Home vegetables and small fruits.
635 F887b French, Allen. Beginner's garden book.
641 G81 Green, Mary. Better meals for less money.
641 H19 Handy, A. L. War food.
641 H87 Hughes, M. B. Everywoman's canning book.
635 K93h Kruhm, Adolph. Home vegetable gardening.
641 M19 Mackay, L. G. Housekeeper's apple book.
635 M82 Morrison & Brues. How to make the garden pay.
641 P25 Partridge & Conklin. Wheatless and meatless days.
630 R14 Rainsower, H. C. Equipment for farm and farmstead.
641 R72e Rose, M. S. Everyday foods in war time.
635 S46w Selden, C. A. Everyman's garden in war time.
511 S91 *Stratton & Remick. Agricultural arithmetic.
641 W93 Wright, M. M. Preserving and pickling.

MECHANICAL AND FINE ARTS

- 623.9 H32 Hay, M. F. Secrets of the submarine.
645 H91i *Hunter, G. L. Inside the house that Jack built.
696 K58 King, A. G. Practical steam and hot water heating.
745 P42 Perry, L. D. Seat weaving.
745 S71 Sorensen & Vaughn. Handwrought jewelry.
744 S96 Svenson, C. L. Essentials of drafting.
791 W12 Wagner, Rob. Film folk.
622 W67 Williams, Archibald. Romance of mining.
620 W67r Williams, Archibald. Romance of modern engineering.

LITERATURE, ESSAYS AND POETRY

- 891.7 B38 Bechofer, C. E. ed. Russian anthology in English.
821.08 B73 Braithwaite, W. S. ed. Golden treasury of magazine verse.
821 B94 Burr, A. J. The silver trumpet.

- 821 C36o Chapman, Arthur. Out where the west begins.
 824 C42o Chesterton, G. K. Orthodoxy.
 821 D28 Davies, M. C. Drums in our street.
 824 D77 Doyle, A. C. Through the magic door.
 824 E14g Eaton, W. P. Green trails and upland pastures.
 821.08 F83 Foxcroft, Frank, ed. War verse.
 821 G93 Guest, E. A. Just folks.
 827 L46f Leacock, Stephen. Frenzied fiction.
 821 L64c Lindsay, Vachell. The Congo, and other poems.
 808.9 L85 Long, A. W. comp. American patriotic prose.
 820.9 L85o Long, W. J. Outlines of English and American literature.
 808.9 M24 McSpadden, J. W. Book of holidays.
 824 M81s Morley, Christopher. Shandygaff.
 822.08 M85a Moses, M. J. ed. Representative plays by American dramatists. v. 1.
 821.08 O81 Osborn, E. B. ed. The muse in arms.
 821 S35 Sassoon, Siegfried. The old huntsman, etc.
 808.9 S56 Shurter, E. D. Winning declamations.
 808.9 S84 Stevens, R. D. comp. American patriotic prose and verse.
 827 S92 Strunsky, Simeon. Little journeys toward Paris.
 824 S93 Sturgis, Mrs. R. C. Random reflections of a grandmother.
 850.7 T63 *Toscani, Giovanni. Italian conversational course.
 810.9 T72 Trent, W. P. & others, eds. Cambridge history of American literature. v. 1.
 821 W59p Whitman, Walt. Patriotic poems.
 808 W67 Williams, B. C. Handbook on story writing.
 825 W69p Wilson, Woodrow. Addresses.
 824 W85d Woodbridge, Elizabeth. Days out.
 840.8 W93 Wright, W. H. ed. Great modern French stories.

BIOGRAPHY

- 92 B754 Blackwell, A. S. ed. Little grandmother of the Russian revolution.
 92 C153 Campbell, R. J. Spiritual pilgrimage.
 92 J286d DeKoven, A. F. Life and letters of John Paul Jones. 2v.
 92 G952 Gordon, E. P. Alice Gordon Gulick.
 92 H132h Hale, E. E. jr. ed. Life and letters of Edward Everett Hale. 2v.
 92 R381h Holbach, M. M. In the footsteps of Richard Cœur de Lion.
 92 P546m *Martyn, Carlos. Wendell Phillips.
 92 B946 *Orcutt, W. D. Burrows of Michigan. 2v.
 92 H954s *Schwarze, W. N. John Hus, the martyr of Bohemia.
 92 S838l Stern, E. G. My mother and I.

929.2 A131

Abbott, L. A. comp. Descendants of George Abbott, and George Abbot. 2v.

*Vital records of Carlisle, Charlemont, Cohasset, Hardwick, Harvard, Milford, Northbridge, Stoneham, West Newbury, Westport, Windsor.

DESCRIPTION AND TRAVEL

918.8 B39

Beebe, William. Jungle peace.

917.2 C26

*Case, A. B. Thirty years with the Mexicans.

915.2 H63

Hitchcock, A. M. Over Japan way.

914.2 H86

Hudson, W. H. A shepherd's life.

919.1 L56

LeRoy, J. A. Americans in the Philippines. 2v.

917.475 L86

Longstreth, T. M. The Adirondacks.

914.7 M75

Monroe, W. S. Bulgaria and her people.

919.8 M89c

Muir, John. Cruise of the Corwin.

917.53 O54

O'Malley, F. W. War whirl in Washington.

917.2 O53d

O'Shaughnessy, Edith. Diplomatic days.

917.8 R47

Rinehart, M. R. Tenting to-night.

917.471 S52

Shackleton, Robert. Book of New York.

917.98 S93v

Stuck, Hudson. Voyages on the Yukon.

915.1 T52

Tisdale, Alice. Pioneering where the world is old.

915.6 U87

Ussher & Knapp. American physician in Turkey.

917.29 V61w

Verrill, A. H. Book of the West Indies.

914.5 W67

Williams, E. R. Plain towns of Italy.

HISTORY

940.9 D29

Davis, W. S. Roots of the war.

947 D73

Dorr, R. C. Inside the Russian revolution.

973 E49h

Elson, H. W. History of the United States. 5v.

938 H77

Hopkinson, L. W. Greek leaders.

973.7 R34

Rhodes, J. F. History of the Civil War.

BOOKS ON THE GREAT WAR

940.91 B164

Bairnsfather, Bruce. Bullets and billets.

940.91 B41

Belmont, Ferdinand. Crusader of France.

940.91 B54

Bishop, W. A. Winged warfare.

940.91 B65

Bott, Alan. Cavalry of the clouds.

940.91 B79

Broun, Heywood. The A. E. F.

940.91 B84

Bryan, J. H. "Ambulance 464".

940.91 C42u

Cheradame, Andre. United States and Pan-Germania.

940.91 C473

*Churchill, Winston. A traveler in war-time.

940.91 C47y

*Churchill, M. S. You who can help.

940.91 C477

Chute, A. H. The real front.

- 940.91 C55 Clark, I. C. American women and the world war.
 940.91 C68 Collins, F. A. The fighting engineers.
 940.91 C76u Connolly, J. B. The U-boat hunters.
 940.91 D13 Daggett, M. P. Women wanted.
 940.91 D29 Davis, A. N. The kaiser as I know him.
 940.91 D32g Dawson, Coningsby. Glory of the trenches.
 940.91 D32o Dawson, Coningsby. Out to win.
 940.91 D328 Dawson, W. J. Father of a soldier.
 940.91 D78 Drake, Vivian. Above the battle.
 940.91 E55f Empey, A. G. First call.
 940.91 F39b *Fernau, Hermann. Because I am a German.
 940.91 F78 Fosdick & Allen. Keeping our fighters fit.
 940.91 F86w Fraser, Helen. Women in war work.
 940.91 G31f Gerard, J. W. Face to face with kaiserism.
 940.91 G357 Gibson, Preston. Battering the boche.
 940.91 G41 Gill, C. C. Naval power in the war.
 940.91 G47 Gleason, Arthur. Golden lads.
 940.91 H14 Hall, J. N. High adventure.
 940.91 H14k Hall, J. N. Kitchener's mob.
 940.91 H25a Hart, A. B. ed. America at war.
 940.91 H73 Holmes, R. D. Yankee in the trenches.
 940.91 J31 Jastrow, Maurice. The war and the Bagdad railway.
 940.91 L36 Lauder, Harry. Minstrel in France.
 940.91 M24 Macquarrie, Hector. How to live at the front.
 940.91 M36 Martin, E. S. The diary of a nation.
 940.91 M37 Masfield, John. Gallipoli.
 940.91 N12 Nadaud, Marcel. The flying poilu.
 940.91 N81 *Northcliffe, Lord. War book.
 940.91 O13 O'Brien, Pat. Outwitting the Hun.
 940.91 O81 Osborne, W. F. America at war.
 940.91 P16 *Paine, R. D. The fighting fleets.
 940.91 P32 Peat, H. R. Private Peat.
 940.91 P65 Pinkerton, R. D. "Ladies from hell".
 940.91 R12 Raemaekers, Louis. Cartoon history of the war. v. 1.
 940.91 R44 Rihbany, A. M. Militant America and Jesus Christ.
 940.91 R56 Robinson, H. P. The turning point.
 940.91 R65 Root & Crocker. Over periscope pond.
 940.91 S657 *Smith, Rodney. Your boys.
 940.91 S69 Sommers, Cecil. Temporary heroes.
 940.91 S97 Swan, C. J. My company.
 940.91 T33c Thayer, W. R. Collapse of superman.
 940.91 U85w Usher, R. G. Winning of the war.
 940.91 V28 Van Dyke, Henry. Fighting for peace.
 940.91 W58 White, W. A. Martial adventures of Henry and me.
 940.91 W68g *Willmore, J. S. Great crime and its moral.
 940.91 W93 Wright, Richardson. Letters to the mother of a soldier.

FICTION

- Atherton, Gertrude. White morning.
 Ayscough, John. *Jacqueline.
 Barton, Bruce. Making of George Groton.
 Bennett, Arnold. Matador of the Five towns.
 Benson, E. F. Autumn sowing.
 Benson, E. F. The tortoise.
 Bindloss, Harold. For the Allinson honor.
 Brown, Alice. The flying Teuton, etc.
 Bryant, Marguerite. The shadow on the stone.
 Buchan, John. Salute to adventurers.
 Buckrose, Mrs. J. E. The gossip shop.
 Burnham, C. L. The opened shutters.
 Cable, G. W. Flower of the Chapdelaines.
 Cather, W. S. My Antonia.
 Chase, Daniel. Flood tide.
 Conrad, Joseph. Within the tides.
 Cooke, M. B. The threshold.
 Dane, Clemence. First the blade.
 Daskam, J. D. B. To-day's daughter.
 Dillon, Mary. Comrades.
 Driggs, L. L. Adventures of Arnold Adair.
 Ferber, Edna. Cheerful—by request.
 Fisher, D. C. Home fires in France.
 French, J. L. ed. Great ghost stories.
 Furman, Lucy. Mothering on Perilous.
 Futrelle, Jacques. Problem of cell 13.
 Gerould, G. H. Peter Sanders, retired.
 Gray, Joslyn. Kathleen's probation.
 Hannay, J. O. *Island mystery.
 Hannay, J. O. Red hand of Ulster.
 Hannay, J. O. The search party.
 Harris, Corra. Making her his wife.
 Gordon, A. C. Ommirandy.
 Green, A. K. Mystery of the hasty arrow.
 Howard, Keble. Smiths in war time.
 Johnston, William. House of whispers.
 Jordan, Elizabeth. Wings of youth.
 Kerr, Sophie. Golden block.
 Kipling, Rudyard. Eyes of Asia.
 Ladd, F. P. After.
 Lagerlof, Selma. Holy city.
 Lincoln, J. C. Shavings.
 Lincoln, N. S. Moving finger.
 Locke, W. J. Rough road.

Train, Arthur. The earthquake.
 Train, Arthur. World and Thomas Kelly.
 Vachell, H. A. Fishplinge.
 Vachell, H. A. Soul of Susan Yellam.
 Warwick, Anne. The best people.
 Watts, M. S. The Boardman family.
 Wawn, F. T. The joyful years.
 Weir, F. R. Merry Andrew.
 Wells, Carolyn. Room with the tassels.
 Wells, Carolyn. Vicky Van.
 White, S. E. Simba.

CHILDREN'S BOOKS: NON-FICTION

808 B15o	Bailey, C. S. Outdoor story-book.
808 B15s	Bailey, C. S. Stories and rhymes for a child.
808.9 B15	Bailey, C. S. Stories for every holiday.
398.4 B28	Barzini, Luigi. Little match man.
796 B38m	Beard, Lina & A. B. Mother Nature's toy-shop.
808.9 B42	Bemis, K. I. & others, eds. Patriotic reader.
942 B57	Blaisdell & Ball. English history story book.
623.9 C69	Collins, A. F. Boys' book of submarines.
680 C68h	Collins, A. F. Handicraft for boys.
500 C68	Collins, A. F. Magic of science.
352 C88	Crump, Irving. Boys' book of mounted police.
808.9 D56ps	Dickinson, A. D. & H. W. eds. Children's second book of patriotic stories.
973 D56	Dickson, M. S. Pioneers and patriots.
398.4 D98	Dyer, R. O. What happened then stories.
821.08 E23	Edgar, M. E. ed. Treasury of verse for little children.
920 F57	Fitzhugh, P. K. Boys' book of scouts.
92 W671h	Hall, M. E. Roger Williams.
917.4 J62j	Johnson, Clifton. New England.
635 K55	Kilpatrick, Van Evrie. Child's food garden.
398.4 L58	Lewis, Elizabeth, ed. Wonderland stories.
793 P29	Payne, F. U. Plays for Anychild.
551 R63	Rogers, J. E. Earth and sky every child should know.
398.2 S62e	Skinner, A. M. & E. L. comp. Emerald story book.
398.4 S87	Stokes, Maive, comp. Indian fairy tales.
940.91 S99	Synon, Mary. My country's part.
929.9 T16	Tappan, E. M. Little book of the flag.
973.2 U85	Usher, R. G. Story of the Pilgrims.

STORIES FOR CHILDREN

Ashmun, Margaret. Stephen's last chance.
 Ashmun, Margaret. Isabel Carleton's friends.

Barbour, R. H. Arrival of Jimpson.
 Brown, A. F. Surprise house.
 Brown, E. A. At the Butterfly House.
 Cheyney, E. G. Scott Burton, forester.
 Coussens, P. W. comp. Sapphire story book.
 Dyer, W. A. Five Babbitts at Bonnyacres.
 Everyday heroes retold from St. Nicholas.
 Gilchrist, B. B. Cinderella's granddaughter.
 Gollomb, Joseph. That year at Lincoln High.
 Henry, O. Ransome of Red Chief, etc.
 Hunt, C. W. Little house in the woods.
 Little, Frances. Camp Jolly.
 Perkins, L. F. The French twins.
 Pollock, F. L. Wilderness honey.
 Quirk, L. W. Boy scouts on crusade.
 Schultz, J. W. Gold cache.
 Seaman, A. H. Three sides of Paradise Green.
 Smith, M. P. W. Five in a Ford.
 Spyri, Johanna. Little Miss Grasshopper.
 Spyri, Johanna. What Sami sings with the birds.
 Verrill, A. H. Trail of the cloven foot.
 Wheeler, F. R. *Boy with the U. S. weather men.
 Wheeler, F. R. Wonder of war in the air.
 White, E. O. The blue aunt.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1918.

The visitors to the gallery have been few, compared to previous years, only 211 being registered. Of this number, 101 were adults and 110 children.

The small attendance is not surprising when one considers the reasons; the long period of closing the first of the year, another month in the fall during the worst of the influenza epidemic, and a subsequent closing for several weeks owing to a continuance of the coal shortage, naturally tended to make the attendance extremely small.

The gallery has received a valuable addition in the gift of a large number of foreign photographs from Mr. Addison B. Le-Boutillier, consisting mainly of choice examples of architecture in France and Italy, the latter country being largely represented. There are also several reproductions of great paintings, as well as portions of the wonderful ceiling of the Sistine Chapel. Another photograph is a fine exterior view of "La Sainte Chapelle", making a satisfying complement to the interior view which is a great favorite with visitors to the gallery.

Without doubt, many persons will experience their first interest in architecture through these photographs, while others will widen their knowledge. One can confidently expect that the release from the strain of war work will cause many to seek a change through the medium of art and architecture.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

NINETEENTH ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTIETH ANNUAL REPORT OF WATER
COMMISSIONERS AND TWENTY-SECOND
ANNUAL REPORT OF SEWER
COMMISSIONERS

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1918

ANDOVER, MASS.
THE ANDOVER PRESS
1919

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

*JOHN L. SMITH

CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS

*JOHN L. SMITH

*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT

*WM. S. JENKINS

*JOHN L. SMITH

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH

*FELIX G. HAYNES

*JOHN W. BELL

*LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

HARRY M. EAMES

1907—1908

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas. ('15)

1914—1916

THOS. E. RHODES ('17)

BARNETT ROGERS ('16)

*LEWIS T. HARDY ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('20)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1918

BARNETT ROGERS ('19)

ANDREW McTERNEN ('21)

PHILIP L. HARDY ('21)

CHAS. B. BALDWIN, Sec'y ('19)

THOS. E. RHODES, Treas. ('20)

SUPERINTENDENT

FRANK L. COLE

*Deceased

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of Andover:

We submit our sixth annual report for the year ending December 31, 1918.

Unfortunately, due to war conditions, our report shows little in the way of progress. Instead, we have been forced to mark time, although it is doubtless true that never has the Board planned its work more carefully, or proceeded more cautiously, for we fully realized the difficulties which confronted us in our efforts to produce results equal to what might obtain in normal times.

ORGANIZATION

Philip L. Hardy, and Andrew McTernen (re-elected) having been selected as members of the Board, we organized on March 5th, with officers as follows:—

Barnett Rogers, chairman

Charles B. Baldwin, secretary

Thomas E. Rhodes, treasurer

WATER DEPARTMENT

No extensions to water-mains; entire appropriation spent on maintenance. The order of the Fuel Administrator to stock up with coal to last until April 1st causes an overdraft of \$838.48. In view of the predicted shortage at the time, and the possibility of a winter equal in severity to that of 1917-1918, this procedure seemed most wise.

The recommendation of \$14,000.00 for maintenance, and

\$2000.00 for construction, as proposed by our superintendent, has our approval.

HIGH SERVICE PUMP STATION

It is with much satisfaction that we can report the installation at the station on Bancroft Road, of the 5-inch centrifugal pump, driven by a 30-horsepower motor. The same is set up complete, and is now being used in place of the oil engine. At one time we feared that because of Government restrictions, due to the war, we would be unable to complete the work, but our efforts to have these set aside because of the emergency were finally successful. We were also able to return to the town \$350.22; the cost being \$2149.78, and the amount appropriated \$2500.00.

WATER SYSTEM

In accordance with the vote passed at the last town meeting the Board has made a very careful, and, as we believe, thorough investigation, to ascertain if the rates charged are sufficient to put the system on a paying basis. At the direction of the Board the secretary has prepared a history of the plant from the time it was first agitated in 1879. This is too voluminous to include in this report, but the same is on file at the office of the Board, and can be examined by any of our citizens who are interested.

The yearly cost as per statement submitted, *i.e.*, maintenance, interest on the investment (4%), depreciation (2%) for thirty years ending December 31, 1918, show the following totals:—

Costs	\$583,510.27
Receipts	398,387.41
	<hr/>
	185,122.86

Average Loss per year—\$6170.76. (See page 9)

We should not, however, overlook the fact that there is a certain amount of free service given to the town, which, if charged for at regular rates, would put the entire system on a basis more nearly self-sustaining.

For example: a private company would undoubtedly charge

\$25 per year for each hydrant, and meter rates for each fountain.
On this basis the yearly returns would be as follows:—

378 Hydrants at \$25	\$9450.00
9 Fountains at \$71.33	641.97
	<hr/>
Total	10091.97
Less Taxes (estimated)	3900.00
	<hr/>
	6191.97

Notwithstanding the fact that the yearly returns, hydrants and fountains not included, are insufficient to meet the expenses, the Board does not recommend an increase in the water rates. We believe that the town should, in view of the benefits received, appropriate a sum yearly to meet the deficit.

The yearly appropriation of \$6000.00 or \$7000.00 to light our streets, which in a sense is a convenience, but not a necessity, is never questioned, and if our imagination is good enough to consider ourselves without a water system we are satisfied that should a private company offer to supply the town with water equal in every respect to what we now enjoy, an appropriation of \$10,000.00, or even \$15,000.00 yearly for protection against fire to *town property* alone would be looked upon with favor. If not, the increased values to property resulting from the water system, together with the reduced insurance rates which now obtain, would seem to justify the expense which the town assumes under the present arrangement.

We do, however, recommend a revision of the rules and regulations affecting water rates; no change having been made since the meter rates were put into effect in 1902.

If, as now contemplated, meters are eventually installed in all dwellings, and the rules are so changed as to allow the Board to charge for water obtained through hydrants on private property, the receipts will undoubtedly show material increases from year to year.

THE WATER BONDED DEBT

The bonded debt of the water system January 1, 1918, was \$159,000.00. There have been paid during the year 1918,

\$10,000.00 of the 4% bonds and \$3000.00 of the 3½% bonds, leaving a bonded debt of \$146000.00.

Of the above amount of indebtedness \$50000.00 is redeemable by sinking funds as follows:—

No. 1 — 1920	\$10000.00
2 — 1922	10000.00
3 — 1923	10000.00
4 — 1925	15000.00
5 — 1928	5000.00
Total	\$50000.00

On January 1, 1919, the amount to the credit of Sinking Funds was \$38497.50. The sum of \$750.00 should be appropriated for the year 1919.

STATUS OF WATER BONDS, DECEMBER 31, 1918

	<i>Bonds Sold</i>	<i>Redeemed</i>	<i>Out- standing</i>	<i>Premiums Received</i>	<i>Interest Received</i>	<i>Interest Paid</i>
1889	\$150000.00	\$145000.00	\$ 5000.00	\$10515.00	\$ 1600.00	\$87000.00
1890	10000.00		10000.00	1045.50		11200.00
1892	10000.00		10000.00	331.50		10400.00
1893	7000.00		7000.00	7.50		7000.00
1895	18000.00		18000.00	660.00		16560.00
1898	5000.00		5000.00	500.00	2.79	4000.00
1902	28000.00	16000.00	12000.00	820.00	116.23	4760.00
1903	2000.00		2000.00		31.12	525.00
1908	35000.00	20000.00	15000.00		270.08	9100.00
1909	14000.00		14000.00		143.78	2405.00
1910	26000.00	8000.00	18000.00	647.44	12.93	7220.00
1911	15000.00	7000.00	8000.00	459.00	78.33	3460.00
1912	10000.00		10000.00	306.90	112.22	2600.00
1914	10000.00	4000.00	6000.00	182.60		1480.00
1916	10000.00	4000.00	6000.00	103.00	17.78	840.00
	350000.00	204000.00	146000.00	15578.44	2385.26	168550.00

The average cost per year on account of payments on WATER BONDS may be arrived at as follows:—

Bonds Redeemed			\$204000.00
Interest Paid		\$168550.00	
Premiums Received	\$15578.44		
Interest Received	2385.26	17963.70	\$150586.30
			\$354586.30
Average per year (30 years)	BONDS	\$6800.00	
" " " "	INTEREST	5019.54	
			\$11819.54

YEARLY COSTS

	Con- struction	Depre- ciation 2%	Construction Costs less Depreciation	Interest 4%	Depre- ciation 2%	Mainte- nance	Total	Receipts	Loss
1889	\$110486.37	\$2209.73	\$108276.64	\$4331.06	\$2209.73	\$272.81	\$6813.60	\$3106.38	\$6813.60
1890	158601.60	3172.03	153219.84	6128.79	3172.03	2999.99	12300.81	5349.32	9194.43
1891	161961.57	3239.23	153340.58	6133.62	3239.23	3399.93	12772.78	5977.41	7423.46
1892	172827.13	3456.54	160749.60	6429.98	3456.54	3491.22	13377.74	7647.95	7400.33
1893	182877.45	3657.55	167142.37	6685.69	3657.55	3792.56	14135.80	8378.44	6487.85
1894	182185.08	3643.70	162806.30	6512.25	3643.70	4514.47	14670.42	8434.15	6291.98
1895	188080.04	3761.60	164939.66	6597.59	3761.60	4380.13	14739.32	9052.31	6305.17
1896	200273.56	4005.47	173127.71	6925.11	4005.47	4627.53	15558.11	8011.87	6505.80
1897	201363.85	4027.28	170190.72	6807.63	4027.28	4336.58	15171.49	7792.40	7159.62
1898	205149.84	4103.00	169873.71	6794.95	4103.00	3662.43	14560.38	9376.29	6767.98
1899	207002.24	4140.04	167586.07	6703.44	4140.04	4471.04	15314.52	10668.57	5938.23
1900	208634.48	4172.69	165045.62	6601.82	4172.69	4915.23	15689.74	8941.83	5021.17
1901	209584.39	4191.69	161803.84	6472.15	4191.69	7955.34	18619.18	11805.21	9677.35
1902	237037.47	4740.75	184516.17	7380.65	4740.75	5787.48	17908.88	11563.79	6103.67
1903	239138.66	4782.77	181834.59	7273.38	4782.77	7389.44	19445.59	11818.53	7881.80
1904	239437.54	4788.75	177344.72	7093.79	4788.75	6378.96	18261.50	12409.79	6442.97
1905	242515.02	4850.30	175571.90	7022.88	4850.30	7228.82	19102.00	13516.47	6692.21
1906	243118.29	4862.36	171312.81	6852.51	4862.36	8121.39	19836.26	17267.86	6319.79
1907	244556.30	4891.13	167859.69	6714.39	4891.13	8112.47	19717.99	14908.89	2450.13
1908	281477.37	5629.55	199151.21	7966.05	5629.55	7419.65	21015.25	16407.21	6106.36
1909	296383.10	5927.66	208129.28	8325.17	5927.66	7499.95	21752.78	17613.66	5345.57
1910	320473.23	6409.46	225809.95	9032.40	6409.46	8378.32	23820.18	18515.99	6206.52
1911	336526.55	6730.53	235132.74	9405.31	6730.53	7974.79	24110.63	19687.47	5594.64
1912	351227.84	7024.56	242809.47	9712.38	7024.56	8117.57	24854.51	22739.88	5167.04
1913	355255.32	7105.11	239731.84	9589.27	7105.11	8412.89	25107.27	19614.00	2367.39
1914	365647.72	7312.95	242811.29	9712.45	7312.95	10306.80	27332.20	22451.01	7718.20
1915	370446.01	7408.92	240200.66	9608.03	7408.92	9982.98	26999.93	23496.87	4548.92
1916	377860.21	7557.20	240057.66	9602.31	7557.20	11998.60	29158.11	24780.82	5661.24
1917	380781.57	7615.63	235363.39	9414.54	7615.63	11538.26	28568.43	27053.04	3787.61
1918	384680.93	7693.62	231569.13	9262.77	7693.62	15838.48	32794.87		5741.83
				227092.36	153111.80	203306.11	583510.27	398387.41	185122.86

Average per year (30 years) \$6170.76

SEWER DEPARTMENT

No construction work was done last year, and until prices for material return to somewhere near normal we are inclined to recommend that no further extensions to the Sewer System be made, or, at least, until such time as the necessity requires. An appropriation for maintenance of \$2500.00, the same as last year, would seem to be in order.

We have a letter from the State Dept. of Health dated January 25, 1919, requesting us to build additional filter-beds, and an article will be inserted in the Warrant to provide for this expenditure.

THE SEWER BONDED DEBT

The bonded debt of the Sewer System January 1, 1918, was \$105,000.00. During the year 1918 \$5000.00 of the 4% bonds were paid, leaving a bonded debt of the Sewer System the sum of \$100,000.00.

Of the above amount of indebtedness \$40,000.00 is redeemable by sinking funds which, January 1, 1919, amounted to \$25,391.79.

The sum of \$1000.00 should be appropriated for the sinking fund for the year 1919.

HIGHWAY DEPARTMENT

No construction work being allowed, and with an appropriation cut approximately \$25,000.00, as compared with that of 1917, there is little to report.

Except for the blanketing of the streets with tarvia, cleaning of gutters and the covering with cinders a few of the streets, which at certain seasons were practically impassable, this department would have shown a decided loss because of overhead expenses, had it not been for the appropriation which made possible a continuation of the work on Lowell Street begun some years ago.

We cannot but feel that the work on our highways has suffered a set-back which cannot easily be overcome unless we redouble our efforts during the coming season.

Our superintendent has prepared an estimate of what must be done sooner or later if Andover is to have as good streets as many of the less prosperous towns throughout the State. From

this it can be seen that at least five years of continuous work on reconstruction would be required to accomplish these ends. To carry out this program an appropriation of at least \$25,000.00 per year would be required.

The same is given below:—

ABBOT STREET

School to driveway of T. D. Thomson	\$4000.00
(Material from Main Street)	

FLORENCE STREET

Elm to Park Street	1500.00
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LUPINE ROAD

School Street to Central Street	8000.00
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MAIN STREET (Westerly side)

Center to Hidden Road (Tarvia bound)	20500.00
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MAPLE AVENUE

Elm to Walnut Avenue (Tarvia bound)	4500.00
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PEARSON STREET

No. Main to B. & M. tracks (water-bound, tarvia top)	4000.00
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PHILLIPS STREET

Main to Central Street. (Material from Main St.)	7000.00
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PINE STREET

Summer to Elm Street	5000.00
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SUMMER STREET

Elm to Pine Street (Tarvia bound)	7600.00
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WOLCOTT AVENUE

Elm Street to Walnut Avenue (Tarvia bound)	4500.00
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ABBOTT VILLAGE

Cuba Street, Shawsheen Road, Red Spring Road (Sidewalk and curbing to be built around corner on Stevens Street to bridge.)	10000.00
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WEST ANDOVER

	10000.00
--	----------

SOUTH DISTRICT

	10000.00
--	----------

BALLARDVALE

	5000.00
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BRIDGES

Central Street bridge	\$8500.00	
Essex Street bridge	7500.00	
Haverhill Street bridge	10000.00	26000.00

Total

127600.00

An appropriation of \$50,000.00 is asked for; 50% to be used for maintenance and 50% for construction.

SNOW REMOVAL

The cost of handling snow is always difficult to estimate in advance. Fortunately this last winter was not as severe as that encountered one year ago, and the burden on the town resulting from the high labor costs and shortage of men was not as great as we anticipated.

In our estimate for maintenance we have included \$2000.00 for snow removal.

SIDEWALKS

The need of sidewalks, particularly in the villages, requires the expenditure of at least \$2000.00 yearly; \$1000.00 to be spent under the Betterment Act. This has been included in our estimate for maintenance.

LOWELL STREET

The work done last year has been fully covered by our superintendent, and for us to review the past would be a repetition; however, as this work slowly but surely approaches the Tewksbury line the desire of the Board to proceed with the reconstruction as rapidly as possible must meet with the approval of the majority of our citizens. An article to appropriate \$7500.00, provided the County and State contribute similar amounts to continue the work in 1919, will be included in the Warrant.

ESSEX STREET BRIDGE

In accordance with the vote passed by the town the Board communicated with the County Commissioners shortly after the March meeting, and as soon as practicable the engineer acting for the Commissioners made an inspection, and later prepared plans and specifications. Some delay followed, due to conditions resulting from the war, and the same were not presented to the Board in proper form until August 1st. The estimate for widening the bridge, the added structure to be built of reinforced concrete with concrete wall and parapet, was \$6000.00, of which the County would assume 45%.

As our appropriation of \$2500.00 would not go very far towards meeting this cost, the same was left undisturbed. An article to make possible this improvement during the coming season will be included in the Warrant.

Respectfully submitted,

BARNETT ROGERS

THOS. E. RHODES

ANDREW McTERNEN

PHILIP L. HARDY

CHARLES B. BALDWIN

Board of Public Works

REDEMPTION OF BONDS

	DR.		
To redeem Water Loans	No. 1 due	1920	\$10000.00
	No. 2 "	1922	10000.00
	No. 3 "	1923	10000.00
	No. 4 "	1925	15000.00
	No. 5 "	1928	5000.00
Balance, January 1, 1918		\$36217.99	
Appropriation March 4, 1918		750.00	
Interest on deposits		1529.51	
			38497.50

	CR.		
Water Loan Funds deposited			
Andover Savings Bank		\$9086.76	
Andover National Bank		29410.74	
			38497.50

	DR.		
To redeem Sewer Loans	due	1919	\$10000.00
	"	1928	30000.00
Balance, January 1, 1918		\$22497.02	
Appropriation March 4, 1918		1000.00	
Assessments, 1918		990.13	
Interest on deposits		904.64	
			25391.79

	CR.		
Sewer Loans deposited			
Andover National Bank			25391.79

BARNETT ROGERS
THOS. E. RHODES
ANDREW McTERNEN
PHILIP L. HARDY
CHAS. B. BALDWIN

Sinking Fund Commissioners

Examined,

NESBIT G. GLEASON
WALTER H. COLEMAN
JOHN S. ROBERTSON
Auditors

SUPERINTENDENT'S REPORT

To the Board of Public Works.

GENTLEMEN:—I present herewith a review of the activities of the different departments under your direction, making the thirtieth of the Water System, twenty-second of the Sewer System, and the sixth report of Highways and Parks, for the year ending December 31, 1918.

WATER DEPARTMENT

The year 1918 presents many things out of the ordinary. Early in the year, the ground being so full of frost, there were many freeze-ups; a number of service-pipes were frozen, meters broken, some of which are just being repaired now. Help being so scarce, we had to employ plumbers to help us out on this work; also the Lawrence Gas Company. This work kept us busy all last winter, the most severe winter the department has ever had. A number of leaks were discovered when the frost came out, as well as having a number in the winter. New screen was necessary on our suction pipe at Haggetts Pond, as the old screen in the pond became rusted out. This was one of the things that made our maintenance so large this year. Another was the repairs on our Steam Plant. Another was the pumping of water to Lawrence, which I will report later.

During 1918 there were no new main pipes laid at all, prices having advanced so that with the shortage of labor it was not practical. Price of water pipe on January 1, 1918, was \$56.00 per ton, and during the past year prices advanced until on

January 1, 1919, prices were \$70.50 per ton. Pig lead was the only thing to drop up to this time. Therefore on January 1, 1919, your present plant is as follows:—

Total length of water-mains.	51.19 miles
Number of hydrants	378
Number of public buildings	15
Number of fountains (added 1)	9
Number of stand-pipes	10
Number of faucets at Parks	3
Number of private hydrants	34

A few reasons our maintenance has increased so in the last year. First of all was the freezing of pipes, being obliged to hire plumbers, also the Lawrence Gas Company; second was the overhauling of our steam plant. This cost us about \$300.00 more than we figured on; then we discovered that our suction screen in the pond was rusting out, which made it necessary to place a new one, which was done at a cost of \$1000.00. A few more reasons which were impossible were the cost of oil, coal, and labor. Cylinder oil advanced from 52 cents to 70 cents per gallon; engine oil from 38 cents to 44 cents; special oil for our oil engine from 62 cents to 75 cents. Then we were obliged to purchase coal to last until April at a price of \$11.00 per ton, when on January 1st I was offered coal at \$9.00 per ton. We also pumped water to the city of Lawrence which required another engineer for a short period, as well as more coal, for which we were obliged to pay \$12.00 and over per ton. The following table will show water pumped to Lawrence, cost, and receipts for same.

Jan. 15 to Mar. 15	24,387,450 Gals.	\$1200.00 Cost	\$1743.32 Receipts
Oct. 9 to Oct. 24	6,507,000 "	298.00 "	656.90 "
Totals	30,894,450 Gals.	\$1498.00 Cost	\$2400.22 Receipts

Or a profit of \$902.22. This is without figuring any wear or tear on machinery, which would be very small.

I wish to state at this time there are no *uncollected* water rates.

For maintenance for year 1919 I would recommend the following, \$14,000.00, to be divided as follows:—

Salaries and labor	\$8000.00
Coal	2500.00
Coal owed for	590.00
Keeping one horse	400.00
Fuel oil and oil	1000.00
Power	1000.00
Miscellaneous	510.00

\$14000.00

SERVICE PIPE

There were fifteen applications received and same laid, which now makes 1470 in use, or a total of 117,898 feet.

Spent on service pipe, meters and tools	\$3187.34	
Credits	1437.76	
	<hr/>	
	1749.58	
Balance	50.42	
Appropriation		\$1800.00
	<hr/>	<hr/>
	\$1800.00	\$1800.00

METERS

During the year there were seventeen new meters set, varying from 5-8 to 2-inch inclusive. I would state I believe that every service pipe should be metered, and then the town would see a little difference in gallons pumped; also in receipts. Therefore I would recommend for 1919 service pipe and construction \$2000—construction, new meters and installing. This \$200 increase would be spent on meters alone.

PUMPING PLANTS

Haggetts Pond station has been run 365 days during 1918, 336 days on steam and 29 days on oil. The average hours has been 11 hours 2 minutes; this does not include starting, stopping or

repair work, it is the actual running time. The following is from the records of Engineer's Sheets:—

Days	Hours	Gallons Pumped	Oil Used	Coal	Average Daily
365	3895.15	268,733,008	2249 Gals.	413 Tons	736,254 Gals.

The steam plant has been overhauled, as reported before; also screen placed on suction pipe. There are a few repairs to be made on the building this coming year: ceilings to be repaired and painted.

The station on Bancroft Road has been run as usual this year Mondays, Wednesdays, and Fridays, and Saturday forenoon about three or four hours, or about thirty hours a week. Kerosene has been used during 1918 altogether and good results have been obtained. Fuel oil becoming so expensive and heavy, was the reason for changing, as well as making a clean appearance around the outside. The new pump and moter have been installed, as voted last year, at a cost of \$2149.78; appropriation, \$2500.00; balance, \$350.22. This will be run by electricity, power being furnished by the Lawrence Gas Company. I cannot say much about this at the present as it has not had a fair trial at this writing, being impossible on account of Government orders to get the plant running before January 1st, but good results are expected as in other towns. This will do all pumping, keeping the oil engine for emergency.

RECEIPTS

Various parties, service pipe, meters, and repairs	\$2448.96	
Water rates	27053.04	
		<hr/>
		29502.00
Credits paid Treasurer		
Water rates	\$27053.04	
Pipe accounts	2448.96	
		<hr/>
	29502.00	29502.00

SEWER DEPARTMENT

No main sewers were laid during the year.

No connection sewers were laid during the year.

The same appropriation will be necessary for 1919, \$2500.00.

There should also be \$3000.00 for filter bed work; this is to finish up five beds started in 1917 but on account of shortage of labor and high price of material it was stopped for one year. This is asked for by the State Board of Health.

FRANK L. COLE,

Superintendent

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1918	Total Cost for Construction
Office Fixtures				\$561.75
Telemeters				1311.63
Telephone				184.77
Teams				583.65
Pipe Distribution				254405.02
Service Pipe	\$3129.84	\$1437.76	\$1692.08	28240.60
Water and Land				6687.23
Suction Pipes				1309.46
Reservoirs				16985.82
Coal Shed				806.97
Grading Land				1739.12
Workshop				1271.88
Buildings Pumping Station				9610.14
Pumping Plants	2149.78		2149.78	47983.54
Construction Expenses				9406.21
Tools	57.50		57.50	3593.14
Maintenance	16849.68	1011.20	15838.48	
TOTALS	\$22186.80	\$2448.96	\$19737.84	\$384680.87

SUMMARY COST OF CONSTRUCTION

SEWER DEPARTMENT

Sewer Main in feet	46040		
Number of Filter Beds		28	
Number of Sludge Beds		3	
Cost to Abutters			\$124519.78
Cost to Town			127358.05
Totals	46040	31	\$251877.83
Includes A. V. Sewer			

EXPENDITURES

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT		
	Mainte- nance	Con- struction	Total	Mainte- nance	Total	Grand Totals
Payrolls, Labor and Teams	\$ 6602.31	\$1051.38	\$ 7653.69	\$1139.88	\$1139.88	\$ 8793.57
Buchan & McNally, supplies	37.25	11.58	48.83			48.83
Boston & Maine	882.48	7.37	889.85	7.67	7.67	897.52
Philip Hardy, labor and material	81.26	73.87	155.13	7.34	7.34	162.47
Curry Bros., supplies	111.21	6.40	117.61	60.00	60.00	177.61
Carefares	114.28	62.63	176.91			176.91
Andover Coal Co.	2539.51		2539.51			2539.51
Vacuum Oil Co., oil and grease	518.30		518.30			518.30
William B. Merrill & Co., supplies	94.34		94.34			94.34
Walworth Mfg. Co., supplies	5.76		5.76			5.76
George E. Winslow, supplies	11.33		11.33			11.33
W. I. Morse, supplies	100.85	61.99	162.84	30.90	30.90	193.74
American Express Company	11.48	48.24	59.72			59.72
Boston and Lawrence Express	.37	.53	.90			.90
Crandall Packing Co., packing	13.62		13.62			13.62
New England Tel. & Tel. Co.	62.34		62.34			62.34
Spring Coal Co., coal	276.02		276.02			276.02
C. I. Alexander	21.90		21.90			21.90
Bride Grimes & Co., supplies	199.94	1.60	201.54			201.54
New England Coal & Coke Co.	299.28		299.28			299.28
Standard Oil Co.	345.52	37.50	383.02			383.02
P. J. Daly	24.00		24.00	28.70	28.70	24.00
John L. Morrison, repairs	25.25		25.25			53.95
Anderson & Bowman, repairs	35.70		35.70			35.70
Helen Tweedell	10.00		10.00			10.00
Texas Oil Co.	10.20		10.20			10.20
C. A. Hill & Co.	6.55	4.16	10.71			10.71

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT		
	Mainte- nance	Con- struction	Total	Mainte- nance	Total	Grand Totals
Neptune Meter Co.	124.02	217.41	341.43			341.43
National Meter Co.	73.69	6.73	80.42			80.42
Pittsburg Meter Co.	.70	114.00	114.70			114.70
W. H. Welch & Co., thawing	256.15		256.15	5.80	5.80	261.95
Lead-Lined Iron Pipe		613.45	613.45			613.45
Mueller Mfg. Co., supplies	56.94	273.39	330.33			330.33
Lawrence Gas Company, power and light	15.67	108.00	123.67			1074.99
Waterworks equipment	66.00	212.93	278.93	951.32	951.32	278.93
Samuel Smith	25.22	16.49	41.71			41.71
United Brass Co.		23.40	23.40			23.40
Chadwick Boston Lead, tubing		45.95	45.95			45.95
Builders Iron Foundry		23.91	23.91			23.91
Boston Pipe and Fittings Co.		35.94	35.94			35.94
Hersey Meter Co.		11.86	11.86			11.86
Thomson Meter Co.		53.20	53.20			53.20
Walter H. Coleman Co.		2.70	11.90			11.90
W. W. Cole, wood	9.20	25.00	25.00			25.00
John Riley, services		4.00	4.00			4.00
George Snell, couplings		18.00	18.00			18.00
Worthington Pump Co.		13.73	859.07			859.07
City of Lawrence			911.60			911.60
T. F. Morrissey & Son			14.67			14.67
Lawrence Machine Co.	845.34		182.95	144.21	144.21	327.16
H. J. Stanchfield, tools and oil	911.60		13.14	25.62	25.62	38.76
Harold L. Bond, tools	14.67		3.00	3.10	3.10	3.10
Smart & Flagg	182.95			20.00	20.00	23.00
George Brown, boots	3.00			36.00	36.00	36.00
National Bank				5.00	5.00	5.00
Tyer Rubber Co., mittens				33.59	33.59	33.59
Sinclair Oil Co.	113.40		113.40			113.40

Daniel Silver & Co.	.	.	.	.	.	.	.	.	.	1.00				1.00			
August Mietz Co.	.	.	.	.	.	.	.	.	.	413.35				413.35			
M. T. Walsh & Co.	.	.	.	.	.	.	.	.	.	8.13				8.13			
Smith & Dove Co.	.	.	.	.	.	.	.	.	.	7.38				7.38			
Barrett Mfg. Co.	.	.	.	.	.	.	.	.	.	8.00				8.00			
Andover Press	.	.	.	.	.	.	.	.	.	96.73				96.73			
Ludlow Valve Co.	.	.	.	.	.	.	.	.	.	175.00				175.00			
T. A. Holt Co.	.	.	.	.	.	.	.	.	.	55.70				55.70			
H. B. McArdle	.	.	.	.	.	.	.	.	.	3.25				3.25			
Deeco Co.	.	.	.	.	.	.	.	.	.	18.00				18.00			
Elliott Co., screen	.	.	.	.	.	.	.	.	.	825.00				825.00			
Sherman Envelope	.	.	.	.	.	.	.	.	.	14.67				14.67			
Lunkheiner Cup Co.	.	.	.	.	.	.	.	.	.	51.88				51.88			
Rensselaer Valve Co.	.	.	.	.	.	.	.	.	.	10.25				10.25			
Merrimac Boiler Co.	.	.	.	.	.	.	.	.	.	8.60				8.60			
										\$16849.68	\$3187.34	\$20037.02	\$2499.13	\$2499.13	\$22536.15		

COMPARATIVE STATISTICS

JANUARY 1, 1919

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	2999 99	1776 21	.....	.....	.....	6 months 24,911,445	46	..	16	.....
1890	\$ 3106 38	3399 93	1806 93	52 85	27 97	82 81	64,595,597	309	80	163	20.50
1891	5349 32	3491 22	2185 83	40 77	25 53	68 42	85,618,190	462	122	165	21.50
1892	5977 41	3792 56	2408 2	36 42	23 13	73 46	104,123,285	542	171	174	22.37
1893	7647 95	4514 47	3354 04	38 31	28 47	71 27	117,847,305	601	204	178	23.50
1894	8378 44	4380 13	3151 33	37 32	26 87	71 81	117,354,950	654	237	178	23.53
1895	8434 15	4627 53	2557 61	37 47	20 71	78 79	123,476,542	706	278	180	24.00
1896	9052 31	4336 58	2383 71	37 67	20 71	69 61	115,094,527	752	326	184	24.12
1897	*8011 87	3662 43	2196 31	32 33	19 38	68 78	113,287,775	789	486	184	24.16
1898	7792 40	4471 04	2656 42	31 21	19 24	65 45	143,260,253	819	571	193	24.91
1899	9376 29	4915 23	3158 50	33 07	21 25	71 78	148,618,935	845	616	194	25.12
1900	10668 57	7955 34	3430 35	45 44	19 59	51 00	175,062,920	876	641	196	25.83
1901	*8941 83	5787 44	3035 47	40 59	25 63	100 01	118,031,451	897	670	196	25.84
1902	11805 21	7389 44	2922 36	55 52	21 96	86 89	133,085,521	934	701	205	29.69
1903	11563 79	6378 96	3004 34	44 25	20 84	81 98	144,164,563	958	722	219	30.17
1904	11818 53	7228 82	3426 98	44 03	20 87	75 60	164,150,879	981	757	221	30.49
1905	12409 79	8121 39	3054 09	45 39	17 29	76 48	176,717,579	1013	791	223	30.95
1906	13516 47	8112 47	4825 63	43 34	19 94	75 48	242,025,757	1036	813	224	31.03
1907	17267 86	7419 65	3750 29	39 52	19 97	79 41	187,750,372	1060	848	227	31.35
1908	14908 89	7499 95	3967 72	36 96	19 55	81 16	202,885,685	1101	884	257	35.22
1909	16407 21	8378 32	4234 61	36 50	18 50	76 93	228,939,882	1147	926	273	38.07
1910	17613 66	7974 79	3584 62	39 21	17 62	91 03	203,401,371	1187	977	290	40.81
1911	18515 99	8117 57	3583 45	39 58	17 48	95 99	205,097,460	1245	1023	321	44.34
1912	19687 47	8412 89	4471 18	36 84	19 58	96 58	228,344,927	1304	1081	344	46.99
1913	22739 88	10306 80	4434 65	43 86	18 86	83 47	234,973,550	1353	1146	351	47.70
1914	19614 00	9982 98	4464 45	42 49	18 55	93 32	†240,599,178	1405	1195	364	49.64
1915	22451 01	†11998 60	4842 20	46 67	21 91	94 02	†220,945,880	1465	1262	369	50.08
1916	23496 87	11538 26	5460 42	52 95	25 06	113 72	†217,894,123	1492	1290	377	51.19
1917	24780 82	15838 48	10092 80	58 93	37 56	100 67	†268,733,008	1503	1311	377	51.19
1918	27053 04							1470	1328	378	

*Regulations and rates changed.

†No allowance for slippage.

HIGHWAYS AND PARKS

To the Board of Public Works.

GENTLEMEN:— I herewith submit the sixth annual report of the Highway Department for the year ending December 31, 1918.

Last winter was, as you know, a very severe one. Catch-basins would freeze, gutters would fill up with snow and ice and keep us cutting and thawing all winter. We had several snow-storms, of which eleven were ploughed. Some of these were done at night, and some came during daylight. The last week of March we were able to clean up a few of our tarvia streets, only on the first of April to have them covered with snow again; this, however, did not last but a few days, because on April 8th we actually started cleaning up streets and catchbasins. This work was finished on April 28th. We then started on getting sand for our tarvia work; this lasted, with the blanketing and covering, about five weeks, during which time we used about 15,789 gallons of Tarvia B. I would say that by buying your tarvia last January you saved 2 cents a gallon. You also saved 2 cents a gallon on all tarvia used on Lowell Street, as that was contracted for at the same time; in all, there was a saving of about \$600 by your early purchase, as on May 1st the price advanced. It takes about 500 loads of sand for the tarvia work and snow work per year.

While this work was being carried on there were several places being repaired with gravel and ashes. On June 10th we were ready for Lowell Street, but were not allowed to start by the Government; so Poor Street was our first work of building road or sidewalk. We started and put in a cinder road and sidewalk from Lowell Street to Corbett Street, ashes being bought from the Pacific Mills and about one hundred loads being given by the Cold Spring Brewery Company, these latter being hauled by the town teams. This work was completed on June 24th. We moved to Lowell Street for about four months or October 23d.

During this time there were lost eleven days by storm and holidays. There were 6700 yards of tarvia-bound road built; railing, drain-pipe, and all work done here for the sum of \$14,999.46. Of this amount the town paid only one-third, the remainder being divided equally between the County and State. In fact, we covered 100 feet more than contract called for, or 3300 feet of 18-foot road. This was built by specifications furnished by the Massachusetts Highway Commission and inspected by their inspector, Mr. George Delano. I would say that the itemized account will be found in the Expenditure Tables.

This finished, we started our fall cleaning, and getting sand in shed for the winter. There have been dragged several roads during the year. The scraper has not been used as much as usual. I would say that most of our appropriation has been used for maintenance, as no new permanent work was done during the year, only Lowell Street, and that was a special \$5000.

As the labor cost has increased, as well as all materials used, the maintenance for 1919 will be divided as follows:—

Labor and teams (same as 1918)	\$10000.00
Sand and gravel	500.00
Blanketing Streets	3500.00
Gravel and ashes	3000.00
Sidewalks—work and curbing	3700.00
Snow	2000.00
Drains	500.00
Keeping team	800.00
Miscellaneous	1000.00
	<hr/>
	\$25000.00

CONSTRUCTION

This work has been nothing during the past year, and if allowed to go much longer there will come the time when we shall have to have a larger amount than the town will want to bear. I hope that some money will be available for new work in 1919, as we want to advance, not go backwards.

ASHES

Ashes have been used in several places during the year 1918: Hidden Road, Ballardvale Road, Summer Street, Salem Street, and several loads used for filling here and there on High Plain Road, Vine Street, Bancroft Road. And this winter they are being used on Salem Street and the River Road. They have been used on Haverhill Street, Chestnut Street and several other sidewalks for filling and for top-coating.

SIDEWALKS AND CURBING

Work was done under the Betterment Act, on School Street and Main Street. Other work was done, such as resurfacing and patching, on Main, Chestnut, High, Central and Bartlet streets, Walnut and Maple avenues, and several driveways were put in. No curbing was set except some in Ballardvale. There are several places where curbing should be set, and especially on the hills.

BALLARDVALE

Work done by Mr. John Haggerty in this section has been of the usual order, cleaning up gutters, catchbasins, dragging and scraping. He also laid cement curbing and covered several sidewalks with dust. Amount spent in this district during 1918 was \$3026.36, including labor, team hire and all material used.

PARK DEPARTMENT

Taking care of park, playstead, and Boulders as well as burning leaves, and cleaning up in the fall, was the only work done in this department.

Appropriation March, 1918	\$1500.00
Expenditure—bills and payrolls	1496.65
	<hr/>
Balance	335.00

I would recommend \$1200 for 1919.

Respectfully submitted,

FRANK L. COLE, *Supt.*

HIGHWAY EXPENDITURES, 1918

NAMES	Mainte- nance	Bridges	Snow	Drains	Side- walks	Lowell Street	Totals
Payrolls, Labor, and Teams	\$10335.21		\$1439.98		\$ 372.54	\$ 6938.83	\$19086.56
Boston and Maine	259.19				100.11	1407.20	1766.50
J. E. Pitman, labor and lumber	104.71	\$779.21				469.74	1353.66
John C. Collins					107.00		107.00
Arthur O'Hara							83.50
George Ward			83.50				139.13
M. M. Converse			139.13				16.00
James J. Abbott			16.00				51.75
John L. Morrison			51.75				140.55
W. I. Morse	95.15		45.40				314.62
M. D. Southwick	305.13		9.49				9.25
Philip Hardy, labor and material	399.19	75.00	9.25	175.20			649.39
C. P. Rea, thawing				74.40			74.40
Puritan Ironworks, grates				130.00			130.00
W. F. Duffee & Co.				172.13			3591.33
Winchester Rock Co.	858.00				2561.20		2612.87
Barrett Mfg. Co., Tarvia B and X	185.11				61.08	2366.68	4356.56
Myerscough & Buchan, garage	2211.36					2145.20	384.33
Town of Andover, team and material	320.77					63.56	783.72
Cross Coal Co., coal						89.40	89.40
Essex Trap Rock Co., rock						88.06	206.34
Herbert Lewis, gravel and sand						65.30	65.30
Zaggosan Ozoonian, gravel and sand						182.25	182.25
H. J. Stanchfield						4.84	14.56
Gray & Kendall	9.72					3.72	74.62
Buchan & McNally	70.90					16.30	44.05
Water Department, coal and pipe	27.75					259.00	259.00
Voncrete Steel Co., steel						20.54	20.54
W. M. Wood						76.00	76.00
New England Tel. & Tel. Co.	127.23					8.19	135.19
Merrimac Boiler Works						10.93	10.93
American Express	5.64						5.64

Boston and Lawrence Express	.80
Roy M. Haynes	.87
Poor & Riley	8.00
Charles E. Torrey, fences	175.05
John W. Richardson, fences	185.55
Shawmut Chemical Co.	16.50
Hildreth & Rogers, advertising	2.15
Telegram Publishing Co., advertising	3.00
T. F. McDonald, horse hire	99.00
Fire Department, use of horses	1338.90
Dais Foundry Co.	2.30
Bride Grimes & Co.	20.16
A. W. Cox Co., supplies	47.52
C. A. Hill & Co., supplies	13.16
Harold L. Bond, supplies	9.60
C. S. & N. A. Pike, sand	30.26
Thomas Peters, sand	6.45
Wood Worsted Co., ashes	41.63
Mrs. F. M. Flint, gravel	18.00
J. H. Campion, grain	201.05
T. A. Holt Co., grain	242.20
Pacific Mills, ashes	1102.20
Buffalo Roller Co., repairs	144.00
Harry M. Eames, hay	282.58
P. J. Hannon, hay	82.14
J. H. Richardson, hay	103.82
H. A. Prescott	11.00
Burnham Motor Co.	5.00
T. F. Morrissey & Son	3.50
Andover Press	19.49
Harold L. Bond	40.52
Daniel Fitzgerald	10.40
Good Roads Machine Co.	11.70
Lawrence Gas Co.	3.10
A. S. Manning	1.90

NAMES	Maintenance	Bridges	Snow	Drains	Side-walks	Lowell Street	Totals
P. J. Daly, grain	64.09						64.09
Anderson & Bowman	71.10						71.10
Tyer Rubber Co.	15.46						15.46
Patrick Dowd	10.00						10.00
Frank H. Hardy	15.50						15.50
Headley Good Roads Co.	59.31						59.31
Independent Coal Tar Co.	24.96						24.96
M. T. Walsh	2.22						2.22
W. H. Coleman	55.60						55.60
J. L. Harvey	35.55						35.55
Crowley & Co.	5.65						5.65
George L. Gage	8.70						8.70
H. Bruckman	36.35						36.35
J. F. Winchester	23.85						23.85
New England Road Machine Co.	42.70						42.70
Fred Gould	150.00						150.00
Samuel Ramsden	33.00						33.00
A. M. Colby	30.65						30.65
	\$20401.63	\$854.21	\$1794.50	\$551.73	\$3201.93	\$14999.46	\$41803.46

FINANCIAL STATEMENT

Appropriation, March, 1918—

Highway Department	\$25000.00
Lowell Street	5000.00
Essex County	4999.83
Massachusetts Highway Commission	4999.83
Credits	1806.46
	<hr/>
	41806.12

Total Expenditure—

Maintenance and Tools	\$20401.63
Sidewalks	3201.93
Snow	1794.50
Bridges	854.21
Drains	551.73
Lowell Street	14999.46

	<hr/>	41803.46
Balance		2.66

	<hr/>	41806.12	41806.12
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TOWN OF ANDOVER

ANNUAL REPORT

OF THE

Receipts and Expenditures



FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1919

ANDOVER, MASS.
THE ANDOVER PRESS
1920

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TOWN OFFICERS, 1919

Selectmen and Overseers of the Poor

HARRY M. EAMES, <i>Chairman</i>	Term expires	1920
CHARLES BOWMAN	" "	1921
ANDREW McTERNEN, <i>Secretary</i>	" "	1922

Assessors

HARRY M. EAMES, <i>Chairman</i>	Term expires	1920
CHARLES BOWMAN	" "	1921
WALTER S. DONALD, <i>Secretary</i>	" "	1922

Town Clerk

GEORGE A. HIGGINS

Tax Collector

WILLIAM B. CHEEVER

Town Treasurer

GEORGE A. HIGGINS

School Committee

ALFRED E. STEARNS	Term expires	1920
GEORGE A. CHRISTIE	" "	1920
EDWARD C. CONROY	" "	1920
EVERETT C. HILTON	" "	1921
MARY W. FRENCH	" "	1921
DAVID R. LAWSON	" "	1921
MARY B. SMITH	" "	1922
ROY H. BRADFORD	" "	1922
RALPH W. COLEMAN	" "	1922

Superintendent of Schools

HENRY C. SANBORN

Board of Public Works and Sinking Fund Commission

THOMAS E. RHODES	Term expires	1920
PHILIP L. HARDY	" "	1921
ANDREW McTERNEN	" "	1921
BARNETT ROGERS	" "	1922
CHARLES B. BALDWIN	" "	1922

Superintendent of Water, Sewer Department, Highways and Parks
FRANK L. COLE

Engineers of Fire Department
CHARLES A. HILL, *Chief* FREDERICK ADAMS, *Clerk*
HARRY E. WELLS

Board of Health
BANCROFT T. HAYNES Term expires 1920
FRANKLIN H. STACEY " " 1921
CHARLES E. ABBOTT, M.D. " " 1922

Chief of Police
FRANK M. SMITH

Constables
GEORGE W. MEARS Term expires 1920
FRANK M. SMITH " " 1920
THOMAS F. DAILEY " " 1920

Trustees of Memorial Hall Library
FREDERIC S. BOUTWELL Term expires 1920
NATHAN C. HAMBLIN " " 1921
GEORGE F. SMITH " " 1922
ALFRED E. STEARNS " " 1923
BURTON S. FLAGG " " 1924
E. KENDALL JENKINS " " 1925
REV. FREDERICK A. WILSON " " 1926

Trustees of Punchard Free School — Terms expire 1922
*SAMUEL H. BOUTWELL HARRY M. EAMES
MYRON E. GUTTERSON HARRY H. NOYES
FRANK T. CARLTON

*Deceased

Auditors

JOHN S. ROBERTSON WALTER H. COLEMAN
HARRY SELLARS

Trustees of Cornell Fund

JOHN C. ANGUS	Term expires	1920
DR. WILLIAM D. WALKER	" "	1921
CHARLES N. MARLAND	" "	1922

Superintendent of Moth Department

EDWARD H. BERRY

Tree Warden

EDWARD H. BERRY

Moderator of Town Meetings

ALFRED L. RIPLEY

Registrars of Voters

CHARLES W. CLARK	JOHN F. HURLEY
PATRICK J. SCOTT	GEORGE A. HIGGINS, <i>Clerk</i>

Trustees of Spring Grove Cemetery

WALTER I. MORSE	DANIEL H. POOR
GEORGE D. MILLETT	WARREN L. JOHNSON
FRED E. CHEEVER	DAVID R. LAWSON
JOHN W. STARK	

Street Lighting Committee

WALTER H. COLEMAN	HENRY J. GARDNER
COLVER J. STONE	JOSEPH L. BURNS
FRED G. CHENEY	

Finance Committee

HENRY A. BODWELL, <i>Chairman</i>	GEORGE ABBOT
EDWARD V. FRENCH, <i>Sec.</i>	GEORGE B. FROST
CHESTER W. HOLLAND	J. HARRY CAMPION
WILLIAM B. CORLISS	

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of
Andover: GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on MONDAY, the THIRD DAY OF MARCH, 1919, at 6 o'clock a.m., to act on the following articles:

Article 1.—To choose a Moderator for one year, Town Clerk, for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, three members of the School Committee for three years, two members of the Board of Public Works for three years, one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Tree Warden for one year, one Trustee of Cornell Fund for three years, Seven Trustees of Spring Grove Cemetery for three years, and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G.A.R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High

School, and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance, Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will vote to change Article V, Sec. 1, of the By-Laws, to read as follows:

Section 1. All articles in any warrant involving the expenditure, appropriation, raising and borrowing of money, including all necessary current expenses and all special appropriations of any sort whatsoever shall be referred to and considered by a "Finance Committee". This committee shall be constituted as follows:

Seven voters to be appointed by the Moderator upon the first day of the annual Town Meeting, none of whom shall hold any town office. This committee shall have power to fill vacancies that occur in their number during their term of office and shall continue in office for one year and until their successors are chosen, by petition of Barnett Rogers and others.

Article 5.—To see if the town will authorize the expenditure of a sum not exceeding \$7500, for widening Essex Street Bridge over Shawsheen River, according to plans prepared and submitted by the Essex County Engineer, provided the County assumes, as agreed, 45% of the cost, on petition of the Board of Public Works.

Article 6.—To see if the town will appropriate a sum not exceeding \$7500, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 7.—To see if the town will appropriate the sum of \$609, the cost of extending the curbing on North Main Street from a point formerly the corner of North Main and Poor Streets; the purpose being to reimburse the abutter for this expense, on petition of the Board of Public Works.

Article 8.—To see if the town will appropriate the sum of \$3000 for additions to filter-beds as requested by the State Department of Health, on petition of the Board of Public Works.

Article 9.—To see if the town will appropriate \$3500 to repair, drain and put in condition for travel the Bailey Road from the Tewksbury line and Pleasant Street to the River Road, on petition of William M. Flint and others.

Article 10.—To see if the town will appropriate a sum not exceeding \$500 to put the room adjoining the new Community Room in the Old Schoolhouse in Ballard Vale and the entrance thereto in proper condition for occupancy, it being understood that the Selectmen may grant the use of this room to the Ballard Vale Village Improvement Society under such conditions as they may approve, on petition of William Shaw and others.

Article 11.—To see if the town will appoint a committee to consider providing a suitable memorial in honor of the men from Andover who have served in the recent European War; or take any other action regarding the same, on petition of John N. Cole and others.

Article 12.—To see if the town will vote to install a fire alarm box on Cuba street near Indian Ridge School and appropriate a sum of money therefor, on petition of James Eaton and others.

Article 13.—To see if the town will vote to place five street lights on Argilla Road, one at the Brook between Mrs. George Baker's and Charles Baker's, one at the turn between Charles Baker's and Wallace Ward's, one between Wallace Ward's and George Rennie's, one between George Rennie's and Mr. Jameson's, one between Mr. Jameson's and Lowell Road and appropriate a sum of money therefor, on petition of Henry E. Miller and others.

Article 14.—To see if the town will vote to call the public park Daly Park in honor of Michael Joseph Daly, the first Andover boy who was killed fighting for his Country in the European War, on petition of Frank S. McDonald and others.

Article 15.—To see if the town will accept Chapter 423, Acts of 1909 and amendments thereto, entitled: An act relative to the sale of ice cream, confectionery, soda water and fruit on the Lord's Day, on petition of Paul Simeone and others.

Article 16.—To see if the town will vote to amend its By-Laws by inserting under Article 4 thereof, the following Sections to be numbered 12 and 13.

Section 12.—The Selectmen may, as provided by Section 29 of Chapter 102 of the Revised Laws of Massachusetts as amended by Section 18 of Chapter 291 of the General Acts of 1918, license suitable persons to be collectors of, dealers in, or keepers of shops for the purchase, sale, or barter of junk, old metals or second-hand articles.

Section 13.—A license fee of Five (\$5.00) dollars shall be charged for such license and paid to the Town Clerk when the applicant receives his license.

Article 17.—To see if the town will vote to accept the provisions of Chapter 293, Acts of 1916, relative to the licensing by Towns of Motor Vehicles carrying passengers for hire.

Article 18.—To fix the pay of the firemen for the ensuing year.

Article 19.—To determine the method of collecting the taxes for the ensuing year.

Article 20.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 21.—To determine what disposition shall be made of unexpended appropriations.

Article 22.—To act upon the report of the Town Officers.

Article 23.—To determine the amount of money to be raised by taxation the ensuing year.

Article 24.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock a. m., and may be closed at 2 o'clock p. m.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this fourteenth day of February, A. D. 1919.

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN
Selectmen of Andover

ANDOVER, MARCH 3, 1919

ESSEX, SS.

Pursuant to the foregoing warrant, I, the subscriber, one of the Constables of the Town of Andover, have notified the inhabitants of said town to meet at the time and place and for the purposes stated in said warrant by posting a true and attested copy of the same on the Town House, on each schoolhouse and in no less than five other public places, where bills and notices are usually posted, and by publication in the Andover Townsman. Said warrants have been posted and published seven days.

FRANK M. SMITH
Constable

ANNUAL TOWN MEETING, MARCH 3, 1919

At a legal meeting of the inhabitants of the Town of Andover qualified to vote in town affairs convened in the Town House in said Andover on Monday, the third day of March 1919, at six o'clock in the forenoon, agreeably to the requirements of the foregoing Warrant, Moderator Alfred L. Ripley presided and after reading a part of the Warrant, it was

Voted, To dispense with the further reading of the Warrant.

Voted, To take up Articles 1 and 2 together.

Voted, That the polls be closed at 2 o'clock p.m.

Took up Articles 1 and 2 together and proceeded to vote for Town Officers and on the Liquor License question by the Australian Ballot System.

The ballot box was found to be empty and registered 0000. The polls opened at 6 o'clock a.m. and closed at 2 o'clock p.m. as voted. The total number of ballots cast was 1292, fifty-six (56) of which were female ballots for School Committee only.

The result of the balloting was as follows:—

MODERATOR—One year:

Alfred L. Ripley	946
Blanks	290

TOWN CLERK—One year:

George A. Higgins	966
Blanks	270

TOWN TREASURER—One year:

George A. Higgins	923
Blanks	313

SELECTMAN—Three years:

David S. Burns	221
Walter S. Donald	489
Andrew McTernen	487
Blanks	39

ASSESSORS—Three years:

David S. Burns	224
Walter S. Donald	480
Andrew McTernen	472
Blanks	60

COLLECTOR OF TAXES—One year:

William B. Cheever	683
George A. Christie	481
Blanks	72

SCHOOL COMMITTEE—Three years:

Roy H. Bradford	827
Ralph W. Coleman	727
William D. McIntyre	656
Mary Byers Smith	800
Blanks	866

TRUSTEES PUNCHARD FREE SCHOOL—Three years:

Samuel H. Boutwell	822
Frank T. Carlton	792
Harry M. Eames	832
Myron E. Gutterson	808
Harry H. Noyes	795
Blanks	2101

BOARD OF PUBLIC WORKS AND SINKING FUND COMMISSION—

Three years:

Charles B. Baldwin	863
Barnett Rogers	852
Blanks	757

BOARD OF HEALTH—Three years:

Charles E. Abbott	920
Blanks	316

AUDITORS OF ACCOUNTS—One year:

Walter H. Coleman	858
John S. Robertson	916
Harry Sellars	863
Blanks	1071

CONSTABLES—One year:

Thomas F. Dailey	854
George W. Mears	820
Frank M. Smith	893
Blanks	1141

TRUSTEE OF MEMORIAL HALL LIBRARY—Seven years:

Frederick A. Wilson	896
Blanks	340

TREE WARDEN—One year:

Edward H. Berry	898
Blanks	338

Shall Licenses be granted for the sale of intoxicating liquors in this town?

Yes	362
No	691
Blanks	183

All the foregoing officers and questions were voted on by ballot and the check lists were used.

REPORT OF PRECINCT CLERK

ANDOVER, MASS., March 3, 1919

Polls opened at 6 a.m. Voted to close polls at 2 p.m. Ballot box registered 0000. Ballot box registered when polls closed 1272. Number of male ballots received 1800. Number of female ballots received 225. Number of male voters voting 1236. Number of female voters voting 56. Number of votes cast 1292. Number of male ballots returned 564. Number of female ballots returned 154.

DANIEL A. COLLINS, *Clerk*

The Moderator declared:

Alfred L. Ripley elected Moderator for one year.

George A. Higgins elected Town Clerk for one year.

George A. Higgins elected Town Treasurer for one year.

Walter S. Donald elected Selectman for three years.

Walter S. Donald elected Assessor for three years.

William B. Cheever elected Collector of Taxes for one year.

Roy H. Bradford elected School Committee for three years.

Ralph W. Coleman elected School Committee for three years.

Mary Byers Smith elected School Committee for three years.

Samuel H. Boutwell elected Trustee Punchard Free School for three years.

Frank T. Carlton elected Trustee Punchard Free School for three years.

Harry M. Eames elected Trustee Punchard Free School for three years.

Myron E. Gutterson elected Trustee Punchard Free School for three years.

Harry H. Noyes elected Trustee Punchard Free School for three years.

Charles B. Baldwin elected Board of Public Works and Sinking Fund Commission for three years.

Barnett Rogers elected Board of Public Works and Sinking Fund Commission for three years.

Charles E. Abbott elected Board of Health for three years.

John S. Robertson elected Auditor of Accounts for one year.

Walter H. Coleman elected Auditor of Accounts for one year.

Harry Sellars elected Auditor of Accounts for one year.

Thomas F. Dailey elected Constable for one year.

George W. Mears elected Constable for one year.

Frank M. Smith elected Constable for one year.

Frederick A. Wilson elected Trustee Memorial Hall Library for seven years.

Edward H. Berry elected Tree Warden for one year.

Chose Trustee of Cornell Fund for three years:—Charles N. Marland.

Chose seven Trustees of Spring Grove Cemetery for three years:—George D. Millett, Walter I. Morse, Daniel H. Poor, Warren L. Johnson, John W. Stark, Fred E. Cheever, David R. Lawson.

Chose Street Lighting Committee:—Walter H. Coleman, Colver J. Stone, Fred G. Cheney, Henry J. Gardner, Joseph L. Burns.

Chose Finance Committee for one year (appointed by the Moderator):—George Abbot, Henry A. Bodwell, John H. Campion, William B. Corliss, Edward V. French, George B. Frost, Chester W. Holland.

Voted—To appropriate the following stated sums of money:—

Almshouse expenses	\$4500.00
Almshouse repairs	300.00
Relief out of Almshouse	4000.00
Aiding Mothers with Dependent Children	2500.00
Board of Health	2000.00
Brush Fires	600.00
Fire Department	11600.00

(Voted to take up Article 18 at this time and voted that the pay of the firemen be \$150.00 per year.)

Amount carried forward

\$25500.00

<i>Amount brought forward</i>	\$25500.00
Hay Scales	125.00
Highway Department	35000.00
(Voted that as much of this sum as necessary be used for maintenance and the balance for con- struction.)	
Insurance	2000.00
Insurance (Workmen's Compensation)	2500.00
Interest	17000.00
Memorial Hall Library	2000.00
Memorial Day	350.00
Post 99, G. A. R.	100.00
Miscellaneous	3000.00
Parks and Playsteads	1200.00
Police	6200.00
Printing and Stationery	1400.00
Public Dump	75.00
Retirement of Veterans, Acts 1912	300.00
Redemption of Water Bonds	13000.00
Redemption of Punchard School Bonds	6000.00
Redemption of Andover Loan Act Bonds	5000.00
Redemption of Sewer Bonds	1000.00
Schools (to include receipts)	60000.00
Sewer Department Maintenance	2500.00
Sewer Department Sinking Fund	1000.00
Soldiers' Relief	1500.00
Spring Grove Cemetery (and receipts)	3000.00
State Aid	2500.00
Street Lighting	6500.00
Town Officers	7600.00
Town House	2500.00
Tree Warden, Gypsy and Browntail Moth Dept.	3500.00
Water Department	
Maintenance	14000.00
Construction	2000.00
<i>Amount carried forward</i>	<hr/> \$228350.00

<i>Amount brought forward</i>	\$228350.00
Sinking Fund	750.00
Essex Street Bridge (Article 5)	4125.00
Lowell Street (Article 6)	5000.00
North Main Street Curbing (Article 7)	609.00
Filter Beds (Article 8)	3000.00
Old Schoolhouse (Article 10)	500.00
Fire Alarm (Article 12)	250.00
Total	<hr/> \$242584.00

Took up Article 4.

Voted, at 4.05 p.m., That Article 5, Section 1, of the Town By-Laws be changed to read as follows:

Section 1. All articles in any warrant involving the expenditure, appropriation, raising and borrowing of money, including all necessary current expenses and all special appropriations of any sort whatsoever, shall be referred to and considered by a "Finance Committee". This committee shall be constituted as follows:

Seven voters to be appointed by the Moderator upon the first day of the Annual Town Meeting, none of whom shall hold any town office. This committee shall have power to fill vacancies that occur in their number during their term of office and shall continue in office for one year and until their successors are chosen.

The Moderator appointed the following committee:—George Abbot, Henry A. Bodwell, John H. Campion, William B. Corliss, Edward V. French, George B. Frost, Chester W. Holland.

Took up Article 5.

Voted, at 4.18 p.m., That the sum of \$4125.00 be appropriated for widening Essex Street Bridge over Shawsheen River, according to plans prepared and submitted by the Essex County Engineer, provided the County assumes, as agreed, 45% of the cost.

Took up Article 6.

Voted, at 4.19 p.m., That the town appropriate a sum not exceeding \$5000.00, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate.

Took up Article 7.

Voted, at 4.20 p.m., That the town appropriate the sum of \$609.00, the cost of extending the curbing on North Main Street from a point formerly the corner of North Main and Poor Streets, the purpose being to reimburse the abutter for this expense.

Took up Article 8.

Voted, at 4.25, That the town appropriate the sum of \$3000.00 for additions to filter-beds as requested by the State Department of Health.

Took up Article 9.

Voted, at 4.26 p.m., To refer to the Board of Public Works.

Took up Article 10.

Voted, at 4.29 p.m., That the sum of \$500.00 be appropriated to put the room adjoining the new Community Room in the Old Schoolhouse in Ballardvale and the entrance thereto in proper condition for occupancy, it being understood that the Selectmen may grant the use of this room to the Ballard Vale Village Improvement Society under such conditions as they may approve.

Took up Article 11.

Voted, at 4.32 p.m., That the following resolution, presented by Hon. John N. Cole, be adopted by the town and that the committee called for be appointed by the Moderator.

"The citizens of Andover assembled in annual town meeting review the past year of the town's history with pride in the record of the sons and daughters of the town. This record arouses an earnest purpose to mark with grateful recognition the deeds in the world war in which Andover has had a share.

"More than six hundred sons of Andover have pledged their lives, to uphold a standard of right and honor, carried to the world under American leadership. Twelve have paid the supreme sacrifice.

"Every local organization has devoted its activity to the support of the men at the front, and broadened its sympathy and aid to those in need at home.

"Each call of the nation has been heard in every American home with a measure of response fixed only by the ability to do.

"The town acknowledges the rare service, unfailing loyalty, and high devotion so universally shown in all branches of the town's war service. Honored names and loyal service must have such recognition as will fittingly set before our citizens an enduring memorial that shall carry the deep significance of this great world struggle to not only the people of to-day but the generations to come.

"*Resolved*, That in order that full consideration may be given to the determination of such a memorial, a committee of seven citizens be chosen to carefully study the form that such a memorial shall take, the best method of providing the same, and all matters incident thereto, said committee to report its findings with recommendations for town action, at a future special or regular town meeting."

The Moderator appointed the following committee:— John N. Cole, Frank A. Buttrick, Jerome W. Cross, Charles H. Forbes, Frank H. Hardy, J. F. O'Connell, Frank R. Shipman.

Took up Article 12.

Voted, at 4.33 p.m., That the sum of \$250.00 be appropriated to install a fire alarm box on Cuba Street near the Indian Ridge School.

Took up Article 13.

Voted, at 4.34 p.m., To refer to the Street Lighting Committee.

Took up Article 14.

Voted, at 4.39 p.m., To refer to the committee appointed under Article 11, as a part of the duty of said committee.

Took up Article 15.

Voted, at 4.41 p.m., To accept the provisions of Chapter 423, Acts of 1909 and amendments thereto, entitled: An Act relative to the sale of ice cream, confectionery, soda water and fruit on the Lord's Day.

Took up Article 16.

Voted, at 4.43 p.m., To amend the Town By-Laws by inserting under Article 4 thereof, the following Sections to be numbered 12 and 13.

Section 12. The Selectmen may, as provided by Section 29 of Chapter 102 of the Revised Laws of Massachusetts as amended by Section 18 of Chapter 291 of the General Acts of 1918, license suitable persons to be collectors of, dealers in, or keepers of shops for the purchase, sale, or barter of junk, old metals or second-hand articles.

Section 13. A license fee of Five (\$5.00) Dollars shall be charged for such license and paid to the Town Clerk when the applicant receives his license.

Took up Article 17.

Voted, at 4.48 p.m., To accept the provisions of Chapter 293, Acts of 1916, relative to the licensing by towns of Motor Vehicles carrying passengers for hire.

Article 18. Acted upon under Fire Department appropriation in Article 3.

Took up Article 19.

Voted, at 4.49 p.m., That the taxes be collected by the Tax Collector and that he receive one per cent of all moneys collected and that interest be charged at the rate of six per cent per annum, from October 15th, on all taxes remaining unpaid after November 1st.

Took up Article 20.

Voted, at 4.50 p.m., That the Town Treasurer, with the approval of the Selectmen, be and hereby is, authorized to borrow money from time to time in anticipation of the revenue of the financial year beginning January 1st, 1919, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Took up Article 21.

Voted, at 4.51 p.m., That all unexpended appropriations be turned into the treasury.

Took up Article 22.

Voted, at 4.52 p.m., That the report of the Town Officers be accepted.

Took up Article 23.

Voted, at 4.53 p.m., To raise by taxation \$173,000.00, and also an amount sufficient to meet the State and County taxes after deducting receipts from the State Income Tax.

Took up Article 24.

Voted, at 4.55 p.m., That a committee of three be appointed by the Moderator to consider the matter of reducing the expense of the Almshouse Department without reducing its efficiency, and report at the next annual town meeting.

The Moderator appointed the following committee:—Harry M. Eames, John N. Cole, Frank A. Buttrick.

Voted, at 5.10 p.m., That the meeting be dissolved.

The foregoing is a true copy of the Warrant and of the officer's return on the same, also a true copy of the doings of the meeting.

Attest

GEORGE A. HIGGINS, *Town Clerk*

(RECOUNT)

We certify that at a recount of the votes cast at the Annual Town Election, March 3, 1919, for Selectmen and Assessor, held by the Registrars of Voters in accordance with the provisions of law relating thereto, at the Town House, March 8, 1919, at 2 o'clock in the afternoon, it appears that Andrew McTernen was elected Selectman in place of Walter S. Donald, who was declared elected to said office by the Town Meeting.

The result in the case of the Assessor was not affected.

The number of votes cast for each candidate as determined by the recount was as follows:—

SELECTMAN

David S. Burns	Two hundred twenty-two	222
Walter S. Donald	Four hundred eighty-nine	489
Andrew McTernen	Four hundred ninety	490
Blanks	Thirty-five	35
Total		1236

ASSESSOR

David S. Burns	Two hundred twenty-six	226
Walter S. Donald	Four hundred eighty-one	481
Andrew McTernen	Four hundred seventy-three	473
Blanks	Fifty-six	56
Total		1236

CHARLES W. CLARK
JOHN F. HURLEY
PATRICK J. SCOTT

Registrars of Voters

GEORGE A. HIGGINS, *Clerk*

SELECTMEN'S REPORT

SCHOOLS

Appropriation, March 3, 1919	\$60000.00
Receipts	995.79

\$60995.79

Henry C. Sanborn, Superintendent	\$ 2925.36
Emily Walker, Clerk	476.65
Teachers' payroll	36431.06
Annie McIntosh, matron	281.20
Janitors' payroll	4966.33
Alvah Wright, transportation	730.00
C. H. Newton, transportation	623.00
Boston & Maine Railroad, transportation	1148.34
Bay State St. Railway, transportation	1334.92
Eastern Mass. St. Railway, transportation	595.40
S. T. Shattuck & Sons, team hire	120.00
American Railway Ex. Co.	26.52
New England Tel. & Tel. Co.	100.29
Lawrence Gas Co.	177.72
J. H. Champion & Co., supplies	149.15
H. C. Sanborn, supplies	74.80
Leo Melonson, labor	3.00
Mitchell Woodbury Co.	17.90
Hopkinson & Holden, supplies	7.05
Columbia School Supply Co., supplies	2.50
T. A. Holt, Co., supplies	1.72
L. E. Knott Apparatus Co., supplies	46.50
James Eaton, supplies	3.05
S. K. Ames, supplies	26.40

<i>Amount carried forward</i>	50268.86
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Appropriation and Receipts	\$60995.79
<i>Amount brought forward</i>	50268.86
Lindsay & Young, supplies	.83
Rockport Fish Market, provisions	5.17
Walter I. Morse, supplies	221.65
Lawrence Lumber Co., supplies	303.76
H. I. Dallman Co., supplies	123.19
J. W. Richardson, labor and supplies	183.32
Winthrop S. Boutwell, labor	2.00
R. M. Haynes, supplies	4.20
William McPhee, labor	21.88
Patrick Sullivan, labor	19.47
J. L. Hammett Co., supplies	308.71
Milton Bradley Co., supplies	107.17
Royal Typewriter Co., supplies	91.00
Ginn & Co., supplies	201.63
The Macmillan Co., supplies	10.47
The Outlook	4.00
Boston Paper Board Co., supplies	116.95
L. C. Smith Brothers, supplies	.75
The Literary Digest	4.00
Scientific American Pub. Co.	5.00
American Book Co., supplies	107.54
D. C. Heath & Co., supplies	160.99
Edward E. Babb & Co., supplies	1133.33
The Gregg Publishing Co., supplies	30.11
Houghton Mifflin Co., supplies	21.14
Allyn & Bacon, supplies	79.57
Boston & Lawrence Despatch	3.31
Silver Burdett & Co., supplies	118.11
Andover Coal Co., coal	3887.90
City of Lawrence, tuition	186.49
T. F. Morrissey & Son, conveyance	139.00
Benjamin H. Sanborn & Co., supplies	33.67
Scott, Foresman & Co., supplies	5.92
Charles M. Homeyer Co., supplies	6.87
<i>Amount carried forward</i>	<hr/> \$57917.96

Appropriation and Receipts	\$60995.79
<i>Amount brought forward</i>	57917.76
Ward, Stationers, supplies	1.05
Overmeadow Farm, supplies	42.00
Chandler & Barber Co., supplies	3.22
John D. Blackshaw, repairing	10.25
Grand Union Tea Co., supplies	3.24
West Disinfecting Co., supplies	97.25
The Cudahy Packing Co., supplies	4.65
Daniel Webster, labor	56.00
Ella S. Morrill, expenses	6.50
Betridge E. Tucker, carfares	5.30
Carl H. Adams, carfares	4.20
Oliver Ditson Co., supplies	26.31
H. B. McArdle, supplies	16.30
Andover Press, printing and supplies	326.10
Lyons & Carnahan, supplies	227.64
H. Sanford Leach, supplies	4.00
Bureau of Publication, supplies	9.70
Underwood Typewriter Co., supplies	43.45
Tyer Rubber Co., supplies	5.71
Anna Ilgorsky, tuition	10.00
Louis Ilgorsky, tuition	10.00
Board of Public Works, water	427.83
John C. Winton Co., supplies	9.74
Mrs. L. A. Morse, supplies	6.00
J. McGhie, labor	2.18
Buchan & McNally, plumbing,	374.38
Ernest T. Hethrington, supplies	35.79
Thiras Brothers, supplies	17.75
J. H. Playdon, supplies	16.00
George A. Christie, supplies	.80
County of Essex, tuition	67.29
City of Lowell, tuition	120.00
Buchan & Francis, supplies	174.14
Frank E. Dodge, Labor	21.28
<i>Amount carried forward</i>	<hr/> \$60104.01

Appropriation and Receipts	60995.79
<i>Amount brought forward</i>	60104.01
Miss S. E. Riley, supplies	21.56
William L. Frye, truant officer	101.35
W. D. Walker, school physician	195.00
Teachers' College	4.24
C. A. Hill & Co., supplies	62.54
E. S. Hardy, wood	97.50
Russell Sage Foundation	.57
U. S. Paper Mills, supplies	20.00
James J. Abbott, wood	50.00
Henry Dolan, tuition	10.00
James Sullivan, tuition	10.00
John Mahoney, tuition	10.00
J. E. Pitman, carpenter work	794.36
University Co-op. Co., Inc., supplies	2.40
Frank E. Bailey, tuition	10.00
Anna J. Smith, tuition	10.00
A. W. Scribner, supplies	10.50
A. N. Marquis & Co., supplies	10.80
The Independent	4.00
The Bruce Publishing Co., supplies	1.33
The Ribbon Life Co., supplies	2.50
Robert Ryan, labor	14.00
Jones, McDuffee & Stratton, supplies	16.15
Helen Leonard, tuition	10.00
Elizabeth Hurley, tuition	10.00
Christina I. Ring	10.76
Margaret R. Eldred, carfares	6.20
A. N. Palmer Co., supplies	84.00
Kee Lox Mfg. Co., supplies	1.75
Diamond Spring Water Co., water	26.75
E. McCabe & Co., supplies	1.50
Parker Educational Co., supplies	.83
School Department	2.81
Hiller & Co., supplies	4.98
<i>Amount carried forward</i>	61722.39

Appropriation and Receipts		60995.79
<i>Amount carried forward</i>	61722.39	
H. W. Tarbell, landscape work	98.28	
Standard Oil Co., supplies	31.17	
Barbara Walker, for tuning piano	5.00	
E. Walker, sundries	16.50	
Anderson & Bowman, labor	5.50	
John L. Morrison, labor	2.50	
D. Donovan & Son, painting	395.28	
Yawman & Erbe Co., supplies	5.36	
Hollis French & Allan Hubbard, engineers	27.90	
Holden Brothers, labor	258.90	
F. H. Stacey, supplies	12.26	
Amigraph Co., supplies	6.63	
F. J. Barnard, book binding	99.30	
Gray & Kendall, labor and materials	310.10	
Mass. Child Labor Committee	4.00	
C. E. Merrill Co., supplies	7.45	
Wright & Potter Printing Co., supplies	9.11	
A. S. Barnes Co., supplies	27.00	
A. E. Curtis	12.00	
John Ferguson, repairing clocks	6.00	
Little Brown & Co., supplies	4.77	
Atkinson Mentzer Co., supplies	3.19	
David S. Gordon, wood	11.25	
Reformatory for Women, supplies	19.15	
B. F. Drakenfield & Co., supplies	2.83	
	<hr/>	
Total expenditure	\$63103.82	
Overdrawn		2108.03
	<hr/>	<hr/>
	\$63103.82	63103.82

TOWN OFFICERS

Appropriation, March 3, 1919		\$7600.00
Rebate on Bond		50.00
Harry M. Eames, Chairman Selectmen	\$700.00	
Walter S. Donald, Selectman & Assessor	350.00	
Charles Bowman, Selectman	600.00	
Andrew McTernen, Selectman	250.00	
George A. Higgins, Town Clerk	900.00	
George A. Higgins, Treasurer	850.00	
William B. Cheever, Collector of Taxes	1947.17	
George A. Higgins, Collector pro tem.	109.37	
Daniel J. Murphy, Town Counsel	350.00	
Precinct Officers, Precinct 1	223.00	
Precinct Officer, Precinct 2	80.00	
Registrars of Voters	94.00	
John S. Robertson, Auditor	70.83	
Walter H. Coleman, Auditor	70.83	
Harry Sellars, Auditor	62.50	
Nesbit G. Gleason, Auditor	8.33	
W. C. Crowley, Sealer Weights & Measures	197.51	
Joseph I. Pitman, Building Inspector	266.66	
Dr. J. J. Daly, Town Physician	200.00	
Alfred L. Ripley, Moderator	10.00	
Smart & Flagg, bond for Treasurer and Collector	180.00	
		<hr/>
Total expenditure	7520.20	
Balance	129.80	
		<hr/>
		\$7650.00 \$7650.00

TOWN HOUSE

Appropriation, March 3, 1919		\$2500.00
George W. Mears, janitor	\$820.00	
Knipe Brothers, plumbing	259.69	
Lawrence Gas Company	193.55	
Cross Coal Company, coal	446.25	
Andover Coal Company, coal	191.25	
Farley Awning & Decorating Co., decorating	125.00	
W. H. Welch Co., plumbing, cells	114.00	
H. I. Dallman & Co., supplies	30.57	
C. A. Hill & Co., supplies	30.15	
Est. John W. Bell, card cabinet	30.00	
David M. May, services	27.50	
J. E. Pitman, repairs	25.75	
Frank E. Dodge, repairs	25.15	
Walter I. Morse, supplies	24.13	
George T. Johnson Co.	24.25	
Andrew Wilson Co.	21.00	
Peoples Ice Co., ice	20.00	
Knight & Thomas	13.50	
J. W. Richardson, repairing	8.75	
Cheshire Chemical Co., supplies	7.75	
New England Tel. & Tel. Co.	5.48	
C. S. Buchan, supplies	4.63	
Daniel P. Webster, services	4.00	
Leonard Saunders, services	4.00	
Holden Brothers, labor	3.48	
Ernest T. Hethrington, supplies	2.51	
Sadie M. Hobbs, laundry	3.81	
Annie F. Brown, laundry	2.19	

Amount carried forward

\$2468.34

Appropriation, March 3, 1919		\$2500.00
<i>Amount brought forward</i>	2468.34	
George H. Pearce, labor	2.45	
Gray & Kendall, repairing	2.11	
John Ferguson, repairing clock	2.50	
Anderson & Bowman,	2.30	
Andover Steam Laundry	.96	
W. C. Crowley, supplies	.50	
American Express Company	.72	
	<hr/>	
Total expenditure	2479.88	
Balance	20.12	
	<hr/>	
	\$2500.00	\$2500.00

FIRE DEPARTMENT

Appropriation, March 3, 1919	\$11600.00
Appropriation, Fire Alarm Box	250.00
Earnings, Town Teams	1315.85
Boston Woven Hose Company	12.29
Payrolls, permanent men	\$6080.78
Payroll, Engine Company No. 1	1188.75
Payroll, Engine Company No. 2	485.93
Lawrence Gas Company	92.28
J. W. Richardson, labor	88.25
Poor & Riley, supplies and grain	156.92
Buchan & McNally, supplies	56.82
Ernest T. Hethrington, supplies	28.15
R. M. Haynes, supplies and grain	232.23
New England Tel. & Tel. Co.	46.85
George Dick, postage	4.00
Myerscough & Buchan, supplies	9.78
Andover Steam Laundry	38.23
Gamewell Fire Alarm Tel. Co.	270.88
Walter I. Morse, supplies	209.67
Walter I. Morse, chief engineer	150.00
Standard Oil Co., gasoline	148.13
American LaFrance Fire Engine Co.	51.49
Knipe Bros., supplies and repairs	104.50
W. H. Coleman Co., supplies	52.38
Fred Adams, labor	16.00
John Shea, grain	162.30
J. E. Pitman, labor and materials	106.77
Buchan & Francis, supplies	33.63
John L. Morrison, shoeing horses	67.60

Amount carried forward

\$9882.32

Appropriation and Receipts

\$13178.14

<i>Amount brought forward</i>	9882.32
P. Murnane, janitor, Ballardvale	100.00
S. T. Shattuck & Sons, teaming	10.18
C. A. Hill & Co., repairs and supplies	179.10
American Express Company	3.20
Andover Coal Co., coal	94.25
P. J. Daly & Co., grain	11.25
Lester Hilton, labor	6.50
John Haggerty, telephone	27.24
Anderson & Bowman, shoeing, etc.	160.45
H. A. Prescott, supplies	25.00
F. L. Hardy, hay	128.27
John Riley, engineer	100.00
Ira Buxton, labor	27.60
Charles F. Emerson	61.12
E. W. Boutwell, hay	30.64
Sinclair Refining Co., gasoline	52.50
W. H. Coleman, engineer	100.00
The Dayton Tire Co., supplies	303.97
Board of Public Works, water	21.51
George E. Clemons	12.50
Carduff & Urquhart	13.13
J. F. Winchester, D. V. S.	12.00
A. B. Loomer, supplies	13.28
Cross Coal Co., coal	471.75
Tyer Rubber Co., supplies	2.50
William H. Burt, labor	6.50
Harry M. Eames, hay	142.60
H. Bruckman, grain	15.47
Ivan Steadman, labor	1.00
Boston & Lawrence Despatch	1.76
C. S. Buchan, supplies	1.50
Gray & Kendall, labor	.60
"The Whatnot", supplies	3.85
<i>Amount carried forward</i>	12023.54

Appropriation and Receipts		\$13178.14
<i>Amount brought forward</i>	\$12023.54	
Robert Ryan, labor	10.00	
O. P. Chase, supplies	1.25	
Benjamin Jaques, supplies	3.50	
Ralph A. Bailey, hay	36.93	
W. C. Crowley, supplies	8.25	
Ralph B. Moulthrop, veterinary	4.75	
Theo Muise, labor	3.75	
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Total expenditure	12091.97	
Balance	1086.17	
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	\$13178.14	\$13178.14

BRUSH FIRES

Appropriation, March 3, 1919		\$600.00
C. A. Hill, et al.	\$58.00	
S. T. Shattuck, et al.	11.60	
C. F. Emerson, et al.	28.00	
P. Leslie	4.00	
R. Manning, et al.	16.50	
F. Adams	3.75	
William Pond	6.00	
Walter I. Morse	37.00	
W. Ronan	3.00	
George Dunnells	10.50	
William Rea	9.00	
William Collins, et al.	4.00	
L. Hilton, et al.	17.75	
J. A. Riley, et al.	21.50	
F. Collins, et al.	21.00	
George Dick	12.00	
Louis Kibbee	25.75	
W. E. Norris	17.15	
American LaFrance Fire Engine Co.	3.38	
H. E. Wilcox, et al.	21.50	
State Forester's Dept., soda	14.20	
Henry Platt	11.50	
	357.08	
Total expenditures	357.08	
Balance unexpended	242.92	
	\$600.00	\$600.00

POLICE DEPARTMENT

Appropriation, March 3, 1919		\$6200.00
County Treasurer, killing dogs		34.00
Received for Traffic Signal		7.00
Transferred from Miscellaneous		570.70
Frank M. Smith, Chief	\$1550.00	
Payrolls	3336.85	
T. F. Morrissey & Son, auto hire	167.25	
Michael T. Welch, police duty	125.88	
Daniel P. Webster, police duty	78.78	
Sparks Child Case, searching for body	634.10	
David May, police duty	78.00	
James Walker, police duty	73.70	
Franklin S. Valentine, duty and killing dogs	73.79	
Thomas F. Dailey, police duty	72.00	
George Dane, police duty	57.00	
Ralph Bruce, police duty	15.00	
W. H. Coleman & Co., supplies	60.00	
New England Tel. & Tel. Co.	97.52	
George C. Dunnells, police duty	46.50	
Charles M. Newton, police duty	30.00	
Anderson & Bowman, supplies	35.05	
Andover Press, printing and supplies	36.05	
Frank M. Smith, meals for prisoners	22.81	
Charles F. Emerson	20.50	
Walter I. Morse, supplies	26.07	
Frank L. Cole, supplies	21.00	
Leonard Saunders, police duty	18.24	
White-Hall Garage, supplies	17.00	
William C. Brown, police duty	15.00	
Buchan & McNally, supplies	11.38	
<i>Amount carried forward</i>	<u>\$6719.47</u>	

Appropriation and Receipts		\$6811.70
<i>Amount brought forward</i>	6719.47	
Richard P. Whitten, repairing	15.79	
S. T. Shattuck & Sons	11.50	
Dionecio Michelini, police duty	10.68	
John Stack, police duty	9.46	
Buchan & Francis, supplies and repairing	6.48	
F. H. Stacey, supplies	5.00	
H. F. Chase, supplies	4.50	
Myerscough & Buchan, supplies	4.50	
Andover Steam Laundry	4.46	
C. A. Hill & Co., supplies	4.25	
Gray & Kendall, labor	3.94	
J. F. Winchester	3.00	
James Ryley	2.58	
Michael Gardner, police duty	2.52	
James Napier, meals for prisoners	2.00	
Omar P. Chase, supplies	1.25	
Boston & Maine Railroad	.32	
	<hr/>	<hr/>
Total expenditure	\$6811.70	\$6811.70

BOARD OF HEALTH

Appropriation, March 3, 1919		\$2000.00
Hobbs & Warren, supplies	\$16.31	
Charles H. Newton, Inspector of Meat	172.00	
Charles H. Newton, Inspector of Animals	250.00	
Rutland State Sanitorium	213.71	
Lakeville State Sanitorium	124.96	
Massachusetts Assn. Boards of Health	2.00	
B. T. Haynes, member Board of Health	50.00	
B. T. Haynes, fumigating	31.00	
Andover Press, printing	4.00	
Knipe Brothers, labor	24.00	
North Reading State Sanitorium	72.00	
Lewis Mears	2.00	
City of Boston, Health Department	8.57	
Gavin H. McGhie	3.00	
Dr. P. J. Look, fumigating	19.00	
F. H. Stacey, supplies	69.75	
Times Publishing Co., printing	1.75	
Joseph Nolan, Inspector Plumbing	116.00	
W. MacDonald, quarantined	28.00	
Dr. C. E. Abbott, Board of Health	75.00	
Dr. C. E. Abbott, fumigating, etc.	122.00	
Lawrence Tuberculosis Hospital	33.00	
International Equipment Co., milk testers	109.85	
State Infirmary	94.00	
Caroline M. Phillips, clerical services	18.90	
F. H. Stacey, Board of Health	50.00	
F. H. Stacey, Milk Inspector	75.00	
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Total expenditure	1785.80	
Balance	214.20	
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	\$2000.00	<hr/> \$2000.00

PRINTING AND STATIONERY

Appropriation, March 3, 1919		\$1400.00
Andover Press, printing and supplies	\$924.73	
Joseph C. Terry, printing	30.25	
J. H. McDonald, stamps, etc.	136.22	
Auto List Publishing Co.	28.00	
Hobbs & Warren, printing	27.53	
Burroughs Adding Machine Co.	12.40	
Wakefield Daily Item	.75	
The Davol Printing House, printing	5.75	
American Express Company	.32	
The Birmingham Pen Co.	8.20	
Herbert Marr, supplies	5.00	
A. W. Brownell, tax tables	3.00	
Smith & Dove Mfg. Co., supplies	6.32	
P. B. Murphy, printing	4.00	
Wright & Potter Printing Co., printing	6.75	
H. M. Meserve & Co., supplies	2.20	
Henry M. Meek Publishing Co., printing	2.60	
Underwood Typewriting Co.	3.00	
Carer's Ink Co.	1.25	
H. B. McArdle	3.00	
Banker & Tradesman	6.00	
	1217.27	
Total expenditure		
Balance	182.73	
	\$1400.00	\$1400.00

GYPSY AND BROWNTAIL MOTH DEPARTMENT

Appropriation, March 3, 1919		\$3500.00
Sale of supplies and private work		3044.89
Received from State		498.14
Payrolls	\$3610.07	
Edward H. Berry, sundries	30.05	
John L. Morrison, storing sprayer	102.00	
Underhay Oil Co., supplies	15.00	
Martin Doherty, storage	78.76	
Samuel Cabot, supplies	32.00	
Buchan & Francis, supplies	4.65	
Anderson & Bowman, labor	1.65	
W. M. Farwell, arsenate of lead	50.00	
Sherwin Williams Co., supplies	11.00	
Buchan & McNally, supplies	3.14	
W. H. Welch & Co., supplies	.25	
W. H. Coleman & Co., gasoline	82.50	
Gray & Kendall, repairs	3.30	
S. T. Shattuck & Sons, labor	434.39	
Walter I. Morse, supplies	25.18	
Dow Chemical Co., arsenate of lead	1114.75	
Freeman R. Abbott, labor	343.80	
Tree Warden		
Payrolls	632.00	
S. T. Shattuck & Sons, labor	80.00	
Gray & Kendall, labor	5.85	
Anderson & Bowman, labor	17.15	
Fred Adams, labor	13.50	
Frank E. Dodge, supplies	3.10	
Fire Department	13.50	
E. Erickson	30.00	
Walter I. Morse, supplies	10.56	
T. F. Morrissey & Son	4.00	
Total expenditure	6752.15	
Balance	290.88	
	<hr/>	
	\$7043.03	<hr/> \$7043.03

SPRING GROVE CEMETERY

Appropriation, March 3, 1919			\$3000.00
Sale of lots			1017.20
Perpetual Care			200.75
Care of lots			1108.00
Interments			433.50
Foundations			150.49
Sundries			44.50
Payrolls	{ old side \$2592.93		
	{ new side 1855.48	\$4448.41	
Anderson & Bowman, supplies		27.15	
Fred A. Swanton, sundries		38.75	
Frank E. Dodge, cement		39.40	
Buchan & Francis, supplies		97.35	
Walter I. Morse, supplies		213.95	
Edith P. Sellars, clerk		100.00	
Board of Public Works, water		314.69	
J. E. Pitman, labor		23.81	
Pacific Mills, ashes		448.90	
The Andover Press, printing and supplies		63.60	
G. D. Millett, supplies		117.00	
Eagle-Tribune, advertising		3.30	
Telegram Publishing Co., advertising		3.38	
Gray & Kendall, labor		1.75	
Buchan & McNally, supplies		1.20	
Albert W. Lowe, supplies		4.00	
		<hr/>	
Total expenditure		5946.64	
Balance		7.80	
		<hr/>	
		\$5954.44	<hr/>
			\$5954.44

INSURANCE

Appropriation, March 3, 1919		\$2000.00
Appropriation, Workmen's Compensation		2500.00
Smart & Flagg, agents, insurance	\$4323.79	
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Total expenditure	4323.79	
Balance	176.21	
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	\$4500.00	\$4500.00

HAY SCALES

Appropriation, March 3, 1919		\$125.00
John W. Richardson, repairs	\$9.52	
Lawrence Lumber Co., lumber	6.12	
William C. Brown, weigher	100.00	
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Total expenditure	115.64	
Balance	9.36	
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	\$125.00	\$125.00

INTEREST

Appropriation, March 3, 1919		\$17000.00
Paid 205 Water Bond Coupons at \$20	\$4100.00	
Paid 85 Water Bond Coupons at \$17.50	1487.50	
Paid 180 Sewer Bond Coupons at \$20	3600.00	
Paid High School Bond Coupons at \$20	3960.00	
Paid 20 Andover Loan Act Bond Coupons at \$20	400.00	
Interest on Notes 52 to 56 inclusive	2512.02	
Bureau Statistics, certification of notes	10.00	
Total expenditure	16069.52	
Balance	930.48	
		\$17000.00 \$17000.00

WATER SINKING FUND

Appropriation, March 3, 1919		\$750.00
Thomas E. Rhodes, Treas., Sinking Funds	\$750.00	
	\$750.00	\$750.00

SEWER SINKING FUND

Appropriation, March 3, 1919		\$1000.00
Thomas E. Rhodes, Treas., Sinking Funds	\$1000.00	
	\$1000.00	\$1000.00

STREET LIGHTING

Appropriation, March 3, 1919		\$6500.00
Lawrence Gas Company	\$6357.12	
Balance	142.88	
	<hr/>	<hr/>
	\$6500.00	\$6500.00

STATE TAX AND HIGHWAY TAX

Andover's proportion of State Tax		\$20350.00
Andover's proportion of Highway Tax		6588.91
Special State Tax		1221.00
Charles L. Burrill, Treasurer and Receiver General	\$28159.91	
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Total expenditure	\$28159.91	\$28159.91

COUNTY TAX

Andover's proportion of County Tax		\$15019.49
David I. Robinson, County Treasurer	\$15019.49	
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Total expenditure	\$15019.49	\$15019.49

MEMORIAL HALL LIBRARY

Appropriation, March 3, 1919		\$2000.00
Frederic S. Boutwell, Treasurer Memorial Hall Library	\$2000.00	
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	\$2000.00	\$2000.00

NOTES GIVEN

Mar. 18, Andover National Bank, Note No. 52 due Nov. 21, Rate 4.35	\$25000.00
Mar. 20, Andover National Bank, Note No. 53, due Nov. 15, Rate 4.35	20000.00
Apr. 10, Andover National Bank, Note No. 54, due Nov. 28, Rate 4.50	25000.00
Apr. 10, Andover National Bank, Note No. 55, due Dec. 5, Rate 4.50	10000.00
Sept. 4, Andover National Bank, Note No. 56, due Dec. 12, Rate 4.40	20000.00
Total Notes issued	<hr/> \$100000.00

NOTES PAID

Nov. 22, Andover National Bank, Note No. 52	\$25000.00
Nov. 22, Andover National Bank, Note No. 53	20000.00
Nov. 28, Andover National Bank, Note No. 54	25000.00
Dec. 9, Andover National Bank, Note No. 55	10000.00
Dec. 12, Andover National Bank, Note No. 56	20000.00
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Total Notes paid	\$100000.00

DOG TAX

Received from County Treasurer		\$484.42
Paid F. S. Boutwell, Treasurer Memorial Hall Library	\$484.42	
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	\$484.42	\$484.42

MEMORIAL DAY

Appropriation, March 3, 1919		\$350.00
Ballard Holt, Quartermaster	\$350.00	
	<hr/>	<hr/>
	\$350.00	\$350.00

POST 99, G. A. R.

Appropriation, March 3, 1919		\$100.00
Ballard Holt, Treasurer G. A. R.	\$100.00	
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	\$100.00	\$100.00

RETIREMENT OF VETERANS

Appropriation, March 3, 1919		\$300.00
James Saunders	\$300.00	
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Total expenditure	\$300.00	\$300.00

PUBLIC DUMP

Appropriation, March 3, 1919		\$75.00
Olaf Benson	\$75.00	
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	\$75.00	\$75.00

REDEMPTION OF BONDS

Appropriation, March 3, 1919

Water		\$13000.00
High School		6000.00
Andover Loan Act		5000.00
Sewer		1000.00
Assessments from Abbott Village Sewer		4727.44
Paid from Sewer Sinking Funds		10000.00
Paid from Water Sinking Funds		10000.00
Old Colony Trust Co., 10 Sewer Bonds, 130-140 inclusive	\$10000.00	
Old Colony Trust Co., 5 Sewer Bonds, 156-160 inclusive	5000.00	
Old Colony Trust Co., 5 High School Bonds, 11-15 inclusive	5000.00	
Old Colony Trust Co., 1 High School Bond, No. 102	1000.00	
Old Colony Trust Co., 5 Andover Loan Act Bonds, 31-35 inclusive	5000.00	
Old Colony Trust Co., 1 Water Bond, No. 289	1000.00	
Old Colony Trust Co., 1 Water Bond, No. 335	1000.00	
Old Colony Trust Co., 2 Water Bonds Nos. 345-346	2000.00	
Old Colony Trust Co., 1 Water Bond, No. 318	1000.00	
George A. Higgins, Treas., paid 1 Water Bond, No. 217	1000.00	
George A. Higgins, Treas., paid 2 Water Bonds, Nos. 251-252	2000.00	
George A. Higgins, Treas., paid 15 Water Bonds, 146-160 inclusive	15000.00	
Total	49000.00	
Balance	727.44	
	<hr/>	
	\$49727.44	\$49727.44

MISCELLANEOUS

Appropriation, March 3, 1919		\$3000.00
New England Tel. & Tel. Co.	\$9.45	
J. E. Pitman, labor	55.03	
Lilla D. Stott, probate and registry returns	67.76	
John A. Riley, janitor and supplies	14.56	
Edith P. Sellars, clerk	630.00	
American Express Co.	1.64	
Scott T. Shattuck, labor	12.00	
Andover Press, supplies	2.50	
John H. Clinton, constable	10.00	
W. F. Gledhill, Fish Warden	10.00	
Underwood Typewriter Co., typewriter	107.50	
Andover National Bank, safe deposit box	5.00	
T. F. Morrissey & Sons, auto hire	23.00	
H. Lawrence, attorney, Kent case	35.00	
Selectmen, expenses and carfares	25.25	
W. & L. E. Gurley, supplies	8.04	
J. H. Playdon	10.00	
Assessors, expenses and carfares	32.00	
Boston and Maine, tickets	16.75	
Allen Brothers	6.00	
George A. Higgins, postage, etc.	24.00	
Curtis Shoe Shop, repairing	9.00	
Dr. J. J. Daly, return of births	2.50	
Dr. E. D. Lane, return of births	3.75	
Dr. Charles E. Abbott, return of births	1.25	
Dr. P. J. Look, return of births	11.00	
Dr. W. D. Walker, return of births	9.75	
Dr. E. C. Conroy, return of births	1.00	
<i>Amount carried forward</i>		<hr/> \$1143.73

Appropriation March 3, 1919		\$3000.00
<i>Amount brought forward</i>	\$1143.73	
Dr. C. W. Scott, return of births	1.00	
E. M. Lundgren, return of deaths	16.50	
M. J. Mahoney, return of deaths	4.25	
E. L. Bennett, return of deaths	1.50	
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Total expenditure	1166.98	
Transferred to Police Department	570.70	
Transferred to B. Vale Schoolhouse	172.68	
Balance	1089.64	
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	\$3000.00	\$3000.00

OVERSEERS OF THE POOR

The Overseers of the Poor submit the following report for the year ending December 31, 1919:—

As stated in our report for 1918, "The Town of Andover has been most fortunate in having Mr. and Mrs. Swanton as superintendent and matron at the Town Farm, and it was with regret that we received their resignation", and we thought we were fortunate in securing the services of Mr. and Mrs. Hooton, who came most highly recommended. They entered on their duties in November, 1918, and gradually it dawned upon your Overseers that neither the farm nor the inmates were receiving the attention that Andover was accustomed to and demanded. We were more than gratified when Mrs. Swanton again assumed the duties of matron, and once more our Town Farm has taken its place as one of the model institutions of its kind in the State.

The report of the committee appointed by the Moderator, and the vote taken at the annual Town Meeting, will determine the action of the Overseers of the ensuing year.

HARRY M. EAMES
CHARLES BOWMAN
ANDREW McTERNEN

Overseers of the Poor

ALMSHOUSE EXPENSES

Appropriation, March 3, 1919		\$4500.00
Receipts from Town Farm		299.32
The Family Shoe Store	\$18.77	
Andrew Basso, supplies	31.99	
O. P. Chase, supplies	50.31	
C. A. Hill & Co., supplies	15.25	
New England Tel. & Tel. Co.	11.35	
Thiras Brothers, supplies	8.47	
F. H. Stacey, supplies	66.01	
Frank L. Cole, supplies	5.50	
Walter I. Morse, supplies	32.17	
Charles Melamed	38.29	
Anderson & Bowman, blacksmith work	30.25	
Providence Churning Co., supplies	34.80	
G. A. Yunggebauer, provisions	4.97	
Hiller & Co., supplies	51.64	
Joseph Brick & Son	6.40	
A. B. Sutherland & Co., supplies	2.39	
Lindsay & Young, provisions	277.24	
Lawrence Gas Company	101.73	
Ernest T. Hethrington, groceries	303.96	
H. Bruckman, grain	353.18	
John Shea, grain	158.93	
Theodos Kleronomas, repairing	1.85	
John H. Shattuck, supplies	2.80	
George D. Ward,	13.00	
Beach Soap Co., supplies	9.25	
Agnes H. West	.74	
Louis J. Kibbee, labor	6.00	
Frank L. Holt,	70.75	
Charles Buchan, supplies	1.00	
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<i>Amount carried forward</i>	\$1708.99	

Appropriation and Receipts	\$4799.32
<i>Amount brought forward</i>	1708.99
S. K. Ames, provisions	8.38
E. E. Gray Co., supplies	19.50
C. I. Alexander & Sons	55.00
W. C. Boyce	18.00
A. B. Loomer, provisions	198.94
Rockport Fish Market, fish	102.55
Reid & Hughes, supplies	34.87
Army Retail Store, provisions	30.00
Andover Coal Co., coal	28.00
People's Ice Company, ice	100.00
S. H. Bailey, supplies	4.00
Ripley Farm, supplies	5.45
J. P. Wakefield, provisions	108.69
Buchan & McNally, supplies	28.12
J. H. Champion & Co., groceries	164.52
H. E. Miller, repairing	4.00
Chester D. Abbott, supplies	5.00
W. C. Crowley & Co., supplies	19.37
Arden Farm, supplies	15.50
Chemo Co., supplies	7.50
F. C. Small & Co., groceries	30.70
Fuller Brothers	6.00
Albert W. Lowe, supplies	19.17
Frank E. Dodge	3.40
Murray Brothers, groceries	200.22
Singer Sewing Machine Co.	3.00
Board of Public Works	46.36
Cross Coal Co., coal	510.00
W. H. Welch & Co., supplies	3.82
John D. Blackshaw, supplies	1.50
William Hooton, superintendent	600.48
Fred Broadbent, labor	173.50
Mrs. F. A. Swanton, matron	150.00
Mary Adams, labor	105.00
<i>Amount carried forward</i>	<hr/> \$4519.53

Appropriation and Receipts		\$4799.32
<i>Amount brought forward</i>	\$4519.53	
Mary Hammersley, labor	103.00	
Isabella Sinclair, labor	97.20	
Stella Manning, labor	65.00	
Mrs. Charlotte Campbell, labor	56.23	
Bertha Johnson, labor	82.00	
Mrs. Alice Bradley, labor	30.86	
Mrs. Baxter, labor	16.05	
Mrs. P. Frederickson, labor	19.80	
Charlotte M. Hill, labor	1.95	
Mrs. W. Gorrie, labor	8.40	
Mrs. Mabel Whitten, labor	20.00	
Mrs. Elizabeth Hooton, labor	8.00	
Mrs. Lulu Whitman, labor	45.70	
John W. Hooton, labor	11.00	
	<hr/>	
Total expenditure	5084.72	
Overdrawn		285.40
	<hr/>	<hr/>
	\$5084.72	\$5084.72

ALMSHOUSE REPAIRS

Appropriation, March 3, 1919		\$300.00
Merrimack Boiler Works, supplies	\$17.80	
Buchan & McNally, supplies	15.20	
Walter I. Morse, hardware	7.20	
Frank E. Dodge, labor and supplies	5.05	
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Total expenditure	45.25	
Balance	254.75	
	<hr/>	<hr/>
	\$300.00	\$300.00

SOLDIERS' RELIEF

Appropriation, March 3, 1919		\$1500.00
Total expenditure	\$979.80	
Balance	520.20	
	<hr/>	<hr/>
	\$1500.00	\$1500.00

STATE AID

Appropriation, March 3, 1919		\$2500.00
Total expenditure	\$837.00	
Balance	1663.00	
	<hr/>	<hr/>
	\$2500.00	\$2500.00

RELIEF OUT OF ALMSHOUSE

Appropriation, March 3, 1919		\$4000.00
Paid out of Almshouse	\$3347.79	
Paid account other cities and towns	167.41	
Paid State	204.18	
Paid on account State	333.82	
	<hr/>	
Total expenditure	4053.20	
Due town from State	\$333.82	
Due town from cities and towns	167.41	501.23
	<hr/>	
Net expenditure	3551.97	
Balance	448.03	
	<hr/>	<hr/>
	\$4000.00	\$4000.00

AIDING MOTHERS WITH DEPENDENT CHILDREN

Appropriation, March 3, 1919			\$2500.00
Town cases		\$2395.00	
On account other cities and towns		1287.00	
On account of State		912.00	
		<hr/>	
Total expenditure		4594.00	
Due from cities and towns	\$632.99		
Due from State	1639.33	2272.32	
		<hr/>	
Net expenditure		2321.68	
Balance		178.32	
		<hr/>	
		\$2500.00	\$2500.00

PERSONAL PROPERTY AT ALMSHOUSE

House Furniture	\$1100.00	
Clothing	300.00	
Farm Stock	890.00	
Farm tools	400.00	
Farm produce	300.00	
Fuel	450.00	
Provisions	125.00	
	<hr/>	\$3565.00

FARM CASH REPORT

FROM JANUARY 1, 1919, TO OCTOBER 1, 1919

Received for

Broken glass	\$1.45
Pigs	52.50
Boarding cows	15.00
Old Hens	9.00
Calf	7.00
Milk	29.84

Paid Town Treasurer to balance		\$114.79
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	\$114.79	\$114.79

WILLIAM HOOTON
Superintendent

FROM OCTOBER 1, 1919, TO DECEMBER 31, 1919

Received for

Milk	\$13.80
Apples	17.50
Pork	77.73
Corn fodder	40.00
Calves	35.50

Paid Town Treasurer to balance		\$184.53
	<hr/>	<hr/>
	\$184.53	\$184.53

MRS. F. A. SWANTON
Matron

Number of inmates, January 1, 1919	8
Number of inmates died	1
Number of inmates, January 1, 1920	7
Number over eighty years of age	2
Number between sixty and seventy years of age	4
Number between fifty and sixty years of age	1

ASSESSORS' REPORT

We herewith submit our annual report:—

Number of male polls assessed		1947
Personal estate	\$1848350.00	
Real estate	6639050.00	
	<hr/>	\$8487400.00
Poll tax	3894.00	
Tax on personal property	42513.00	
Tax on real estate	152698.67	
	<hr/>	199105.67

Rate of taxation per \$1000, \$23.00.

Number of

Horses assessed	488
Cows assessed	1099
Cattle other than cows assessed	296
Sheep assessed	60
Swine assessed	216
Fowls assessed	9350
Dwellings assessed	1723
Acres of land assessed	17816

HARRY M. EAMES
WALTER S. DONALD
CHARLES BOWMAN

Assessors of Andover

REPORT OF TREE WARDEN

I have planted, trimmed, and removed trees where needed. I have done some brush-cutting in the outlying districts, but owing to the lack of funds I was not able to do as much as was necessary. In order to remedy these very bad conditions, I ask that the sum of \$1000 be appropriated to carry on this work.

Respectfully,

EDWARD H. BERRY

Tree Warden

REPORT OF MOTH SUPERINTENDENT

I have followed the usual course in suppressing the moth pest during the past year. The weather conditions during the spraying season were very bad and I worked under a great handicap; but despite this I have the trees in excellent condition. In order to keep them that way I ask that the sum of \$3500.00 be appropriated for this department.

Respectfully,

EDWARD H. BERRY

Moth Superintendent

POLICE DEPARTMENT

REPORT OF CHIEF

To the Board of Selectmen.

GENTLEMEN:—I herewith submit the report of the Police Department for the year ending December 31, 1919.

Whole number of arrests, 124. Males 115. Females 9

OFFENSES FOR WHICH ARRESTS WERE MADE

Non-support	2
Manslaughter	1
Larceny	11
Violating Automobile Law	31
Drunkenness	18
Common drunkard	1
Assault	3
Delinquency	12
Malicious mischief	2
Vagrancy	1
Insane	9
Hunting without license	2
Violating Board of Health Rules	1
Perjury	1
Rape	1
Desertion of family	1
Interfering with an officer	2
Breaking and entering	6
Safekeeping	6
Disturbance	7
Stubborn child	2
Abandoned child	1
Neglect of child	2
Assault on officer	1

DISPOSITION OF CASES

Committed to Essex County Training School	1
" " Lyman School for Boys	2
" " Shirley School for Boys	1
On probation	2
Appealed	4
Suspended sentence to House of Correction	1
Suspended sentence to State Farm	1
Turned over to parents	8
Committed to Danvers Insane Hospital	7
" " Lancaster School for Girls	1
" " Home of the Good Shepherd	1
" " Tewksbury Infirmary	1
" " State Board of Charity	1
" " Essex House of Correction	3
Continued for sentence	2
Held for Grand Jury	6
Paid fines in lower court	39
Suspended sentence to Shirley School for boys	12
Arrested for out-of-town officers	6

MISCELLANEOUS

Fines paid in lower court	\$382.00
Value of property reported stolen	7295.00
Value of property recovered	6690.00
Value of police equipment	500.00
Dead bodies cared for	5

SUPERIOR COURT FINDINGS

State prison for not more than 12 years nor less than 10	1
No bill found	2
Cases pending	10
On probation	1

FRANK M. SMITH
Chief of Police

SPRING GROVE CEMETERY

Your Trustees of Spring Grove Cemetery submit the following report:—

For the past few years we have had no acting superintendent to look after the general affairs of the cemetery. This year your Trustees elected Mr. Fred A. Swanton to fill that position. The work as carried on under his supervision, in its different departments, has been done with satisfaction to the Trustees and others concerned.

Much extra work and expense has been forced upon us by the change from carriages to autos which has necessitated the widening and covering over with ashes most of the main avenues, so that autos could use the same in the early spring and fall months of the year. More lots and avenues have been laid out during the past year and it is the policy of your Trustees to continue that work on the west side, for which your Board of Trustees ask for an appropriation of \$1500.00 in addition to the regular appropriation of \$1000.00 and the proceeds from the sale of lots and other receipts from work done in the cemetery.

GEORGE D. MILLETT
WALTER I. MORSE
DANIEL H. POOR
WARREN L. JOHNSON
JOHN W. STARK
FRED E. CHEEVER
DAVID R. LAWSON

Board of Trustees

WARREN L. JOHNSON, *Clerk*

REPORT OF SUPERINTENDENT

To the Board of Trustees:—

I herewith submit my first annual report as Superintendent of Spring Grove Cemetery for the year ending December 31, 1919.

I assumed my duties as superintendent of Spring Grove Cemetery on March 17, 1919.

I found considerable work to be done to make more land available for burial purposes and to improve the general appearance of the cemetery.

First a large drain had to be put in to drain the water from the old railroad and adjacent lots; a large quantity of rocks to be removed so that the ditches from the old railroad bed could be cleaned. About three thousand feet of drives have been ashed and several small pieces have been smoothed up and seeded. On the east side of the cemetery there has been considerable grading and about one and a half acres of brush land have been ploughed.

I wish to thank all lot-owners for their cooperation in the care of their lots, and I would suggest that all who have not had their lots cared for would see me or the clerk, Miss Edith P. Sellars, at the Town House.

Respectfully submitted,

FRED A. SWANTON

Superintendent

STATISTICS OF SPRING GROVE CEMETERY

Lots sold as per last report	483
Lots sold in 1919	19
Total lots sold	502
Total number of single graves sold	190
Interments as per last report	1407
Interments in 1919	64
	1471

ANIMAL INSPECTOR'S REPORT

To the Board of Selectmen:—

GENTLEMEN:—I hereby submit my report for the year beginning November 15, 1918, and ending November 15, 1919.

Number of cattle inspected	1587
Number of stables inspected	179
Number of cows condemned because affected with tuberculosis	19
Number of stables disinfected	15
Number of interstate cattle identified and released	138

Respectfully submitted

CHARLES H. NEWTON

Inspector of Animals

REPORT OF INSPECTOR OF BUILDINGS

To the Board of Selectmen.

GENTLEMEN:—I herewith submit my first report of the Building Inspector's Department, from May 1, 1919, to December 1, 1919.

Whole number of addition and alteration permits granted	52
Whole number of new building permits granted	47
One-family dwelling-houses	27
Two-family dwelling-houses	8
Camps	2
Barns	2
Business blocks	1
Brush and Basket mill	1
Miscellaneous buildings	6

Respectfully submitted,

JOSEPH I. PITMAN

Building Inspector

SCHEDULE OF TOWN PROPERTY

Town House, fixtures and furniture	\$50000.00	
Engine house, storehouse and barn	25000.00	
25723 feet land	20000.00	
	<hr/>	\$95000.00
Memorial Hall	30000.00	
22318 feet land	10000.00	
	<hr/>	40000.00
Engine house, Ballardvale	6000.00	
New shed	200.00	
1-3 acre land	250.00	
	<hr/>	6450.00
Almshouse	16000.00	
Barn and other buildings	3800.00	
31 1-2 acres land	5000.00	
	<hr/>	24800.00
Punchard High School	94000.00	
4 acres land	8000.00	
	<hr/>	102000.00
Heating plant, Jackson schoolhouse	30000.00	
John Dove schoolhouse	25000.00	
Stowe schoolhouse	31000.00	
3 3-4 acres land	6000.00	
	<hr/>	92000.00
Bradlee schoolhouse, Ballardvale	23000.00	
1 acre land	500.00	
	<hr/>	23500.00
Richardson schoolhouse	7000.00	
1-2 acre land	400.00	
	<hr/>	7400.00
	<hr/>	
<i>Amount carried forward</i>		\$391150.00

<i>Amount brought forward</i>		\$391150.00
Indian Ridge schoolhouse	\$17000.00	
1 acre land	800.00	
	<hr/>	17800.00
West Center schoolhouse	3500.00	
1-2 acre land	150.00	
	<hr/>	3650.00
North District schoolhouse	3500.00	
1-2 acre land	50.00	
	<hr/>	3550.00
Bailey District schoolhouse	2500.00	
1-2 acre land	50.00	
	<hr/>	2550.00
Osgood District schoolhouse	2000.00	
1-2 acre land	50.00	
	<hr/>	2050.00
Old Schoolhouse, Ballardvale	3000.00	
1-4 acre land	500.00	
	<hr/>	3500.00
9 acres, Indian Ridge (Gravel Pit)		3000.00
41 1-2 acres, Carmel Woods Reservation		3600.00
173,751 sq. ft. land, Central Park (Richardson Field)		15000.00
6 1-2 acres Playstead		5000.00
Bandstand		1000.00
Andover Board Public Works —		
Pipe-lines and fountains	248000.00	
Pumping station and buildings	42500.00	
Coal shed	700.00	
3 acres land	800.00	
20 acres Boston Ice Co. land	2500.00	
2 reservoirs	16000.00	
4 1-2 acres land	2350.00	
Machinery and tools	1000.00	
Stone-breaker and engine	2000.00	
	<hr/>	
<i>Amount carried forward</i>	\$315850.00	451850.00

<i>Amount brought forward</i>	\$315850.00	451850.00
Steam road roller	1000.00	
Pump-house, east side No. Main St.	5000.00	
3 sleds	75.00	
1 auto	300.00	
3 horses	800.00	
Carts and harnesses	200.00	
Sewer System	253000.00	
Workshop, Lewis Street	1600.00	
Old stable (Low)	1000.00	
Barn and shed, Lewis Street	3000.00	
47467 ft. land, Lewis Street	3000.00	
	<hr/>	584825.00
		<hr/>
		1036675.00
Punchard School Fund		76454.28
Memorial Hall, Permanent Fund	\$45000.00	
Memorial Hall Library, John Cornell Fund	7700.00	
Memorial Hall Library, John Byers Fund	10000.00	
Memorial Hall Library, Edward Taylor Fund	500.00	
Memorial Hall Library, Isaac E. Gid- dings Fund	3000.00	
Memorial Hall Library and furniture	10000.00	
Memorial Hall Library, Woman's Chris- tian Temperance Union	100.00	
Memorial Hall Library, Phillips Fund	3200.00	
	<hr/>	79500.00
Personal Property at Town Farm		3565.00
Motor Combination Chemical Truck		5300.00
Motor Combination Pump and Truck		9000.00
One Steam Fire Engine and apparatus		2800.00
Hook and Ladder Truck		1000.00
Two hose wagons		1000.00
		<hr/>
<i>Amount carried forward</i>		\$1215294.28

<i>Amount brought forward</i>		\$1215294.28
Hose sled		60.00
Four horses		1000.00
Hay scales		350.00
Safes in Town House		800.00
41 1-2 acres of land, Spring Grove Cem'y	9000.00	
Receiving-tomb and tool-house	1500.00	
	<hr/>	10500.00
Weights and measures		350.00
Fire Alarm apparatus		5000.00
4000 ft. hose		2000.00
		<hr/>
		\$1235354.28

TOWN OF ANDOVER—JURY LIST

Abbott, Newton S.
Anderson, Burt M.
Angus, John C.
Averill, George L.
Bailey, Samuel H.
Barrett, Patrick J.
Boutwell, Winthrop S.
Burns, David F.
Carter, George M.
Cates, A. Lincoln
Cannon, Gordon R.
Clark, Herbert
Cheever, Fred E.
Cole, Roscoe K.
Cole, Joseph F.
Cutler, Howard A.
Dane, Louis A.
Dick, James
Disbrow, George W.
Dunnells, George C.
Flanders, Charles W.
Flint, Edwin M.
Flint, John Houghton
Fleury, Eldon E.
Garland, George M.
Godin, John W.
Greenwood, Charles H.
Hannon, Patrick J.
Hannon, Lawrence J.

Harrington, Daniel F.
Hill, Ira B.
Holt, George A.
Holt, John V.
Holt, George E.
Hovey, James H.
Kendall, Frank H. E.
Keane, Mark M.
Lawrence, George F.
Lockhead, Robert
Lynch, Joseph P.
Maddox, John
Mahoney, Timothy J.
May, George M.
Morse, J. Frank
Morgan, Charles W.
McGovern, Clarence F.
Morse, George E.
Mosher, James R.
Mooar, J. Warren
Miller, George R.
Michellini, Dionecio
Nolan, Joseph P.
Noyes, John L.
Nason, Harry C.
O'Connell, Walter J.
O'Hara, Robert W.
O'Donnell, Hugh F.
Platt, Henry W.

Poland, Austin S.
Riley, Joseph A.
Roggemann, Edward
Seacole, Walter H.
Scott, Joseph B.
Scott, David M.
Shaw, George
Shaw, Irving R.
Sherry, Richard J.
Sherry, Frank R.

Stott, George L.
Todd, Henry
Tuttle, Benjamin B.
Traynor, John
Valpey, Frank D.
Valentine, Franklin S.
Veit, Henry
Walker, Salmond C.
Whitman, David O.
Wrigley, Thomas

REPORT OF TAX COLLECTOR

To the Board of Assessors:

The following is the Report of the Collector of Taxes for the year ending December 31, 1919.

1916			
Amount as per warrant		\$2677.23	
Added to warrant		7.84	
Street sprinkling		13.90	
Moth work		30.50	
Interest		406.47	
Collected Taxes	\$2382.56		
Collected street sprinkling	13.90		
Collected moth work	30.50		
Collected interest	406.47		
Abated	302.51		
		\$3135.94	\$3135.94
1917			
Amount as per warrant		\$9817.74	
Added to warrant		13.27	
Moth work		118.08	
Street sprinkling		44.01	
Interest		721.18	
Collected taxes	\$6335.65		
Collected moth work	118.08		
Collected street sprinkling	44.01		
Collected interest	721.18		
Abated	381.42		
Uncollected	3113.94		
		\$10714.28	\$10714.28

1918

Amount as per warrant		\$33842.54
Added to warrant		15.58
Street sprinkling		98.33
Moth work		123.55
Interest		799.69
Collected taxes	\$22057.85	
Collected street sprinkling	98.33	
Collected moth work	123.55	
Collected interest	799.69	
Abated	228.01	
Uncollected	11572.26	
		<hr/>
	\$34879.69	\$34879.69

1919

Amount as per warrant		\$199105.67
Added to warrant		74.14
Moth work		2656.35
Interest		110.89
Collected taxes	\$169755.34	
Collected moth work	2656.35	
Collected interest	110.89	
Abated	622.14	
Uncollected	28802.36	
		<hr/>
	\$201947.08	\$201947.08

SUMMARY COLLECTOR'S CASH ACCOUNT, 1919

AMOUNT COLLECTED AND PAID TO TOWN TREASURER

	<i>Taxes</i>	<i>Moth Work</i>	<i>Street Sprinkling</i>	<i>Interest</i>	<i>Total</i>
1916	\$2382.56	\$30.50	\$13.90	\$406.47	\$2833.43
1917	6335.65	118.08	44.01	721.18	7218.92
1918	22057.85	123.55	98.33	799.69	23079.42
1919	169755.34	2656.35		110.89	172522.58
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$200531.40	\$2928.48	\$156.24	\$2038.23	\$205654.35

WILLIAM B. CHEEVER

Collector of taxes

TREASURER'S REPORT

FINANCIAL STATEMENT

Liabilities

Water Bonds, 4% (5000 due 1920)	\$82000.00
Water Bonds, 3½% (3000 due 1920)	41000.00
Sewer, 4% (5000 due 1920)	85000.00
And'r Loan Bonds, 4% (5000 due 1920)	5000.00
High School Loan, 4% (6000 due 1920)	93000.00
	<hr/> \$306000.00

Assets

Cash, General Fund	\$28689.46
Cash, Water Loan	5026.59
Cash, Sewer Loan	356.59
Cash, Sewer Assessments	323.81
	<hr/> 34396.45
Uncollected taxes	43488.56
Street sprinkling	60.72
Moth work	426.67
	<hr/> 43975.95
Commonwealth, State Aid	837.00
Commonwealth, pauper account	333.82
Cities and Towns, Mothers' Aid	632.99
Commonwealth, Mothers' Aid	1639.33
Sewer Assessments	4494.82
Unpaid Water Rates of January 1	6512.91
Sinking Funds	47905.65
	<hr/> 62356.52
*Balance against Town	165271.08
	<hr/> \$306000.00

*N.B. Value of Town Property, \$1,235,354.28
(See schedule, page 69)

GEORGE A. HIGGINS, Treas., in

DR.

Balance Jan. 1, 1919, General Fund	\$14251.67
Balance Jan. 1, 1919, Water Loan	5026.59
Balance Jan. 1, 1919, Sewer Loan	356.59
Balance Jan. 1, 1919, Abbott Village Sewer Ass'm't	3980.72
Commonwealth, Corporation Tax	25196.89
Commonwealth, Bank Tax	9240.56
Commonwealth, Income Tax, 1919	22998.45
Commonwealth, Income Tax, 1918	1600.00
Commonwealth, Income Tax, 1917	1000.00
Commonwealth, Reimbursement taxes on land	79.09
Commonwealth, Soldiers' Exemption	71.17
Commonwealth, General School Fund	5158.94
Commonwealth, Street Railway Tax	1008.91
Commonwealth, State Aid	1949.00
Commonwealth, School Tuition	228.00
Commonwealth, Industrial School	428.18
Commonwealth, Mothers' Aid	1017.31
Commonwealth, Sick Paupers	13.55
Commonwealth, Temporary Aid	209.90
Commonwealth, Burial of Paupers	15.00
Commonwealth, Hospitals for Consumptives	146.43
Commonwealth, Highway Commission, Lowell Street	4986.12
Commonwealth, Highway Commission, Moth Work	114.50
Commonwealth, State Forresters' Dept.	498.14
Commonwealth, Hawkers' Licenses	39.00
Essex County, Lowell Street	4986.12
Essex County, Dog Tax	484.42
Essex County, killing dogs	34.00
Essex County, Essex Street Bridge,	2167.11
Bay State St., Railway, Excise Tax, 1917	2279.45
Bay State St., Railway, Excise Tax, 1918	2043.97
Bay State St. Railway, Excise Tax, Interest	273.41

Amount carried forward

\$111883.19

account with the Town of Andover

CR.

Orders paid	
Schools	\$ 63103.82
Highway Department	42937.34
Lowell Street	14958.42
Essex Street Bridge	6092.48
Park Department	1273.79
Street Lighting	6357.12
Police	6811.70
Fire Department	12091.97
Brush Fires	357.08
Printing and Stationery	1217.27
Insurance	4320.74
Miscellaneous	1166.98
Town House	2479.88
Town Officers	7520.20
Spring Grove Cemetery	5946.64
Board of Health	1785.80
Moth Work	5942.49
Tree Warden	809.66
Public Dump	75.00
Hay Scales	115.64
Interest on Notes and Bonds	16069.52
Memorial Day	350.00
Special G. A. R. Appropriation	100.00
Memorial Hall Library	2000.00
Memorial Hall Library, Dog Tax	484.42
Old Schoolhouse, Ballardvale	672.68
Almshouse expenses	5084.72
Almshouse repairs	45.25
Relief out of Almshouse	4053.20
Soldiers' Relief	979.80

Amount carried forward

\$215203.61

GEORGE A. HIGGINS, Treas., in

DR.

<i>Amount brought forward</i>	\$111883.19
Eastern Mass. St. Railway, Excise Tax, June 1– Sept. 30, 1919	1029.98
Andover National Bank, Notes	100000.00
Collector's Department, Taxes	200531.40
Collector's Department, Interest on Taxes	2038.23
Collector's Department, Street Sprinkling	156.24
Collector's Department, Moth Work	2928.48
Collector's Department, Interest on Deposits	129.74
Board of Public Works, Water Rates	23864.58
Board of Public Works, Service Pipe	5815.22
Board of Public Works, Water Dept. Supplies	207.43
Board of Public Works, Highway Department	2809.31
Board of Public Works, Sidewalk Assessments	539.00
W. C. Crowley, Sealer's Fees	72.51
George A. Higgins, Town Clerk's Fees	210.87
Old Schoolhouse, Ballardvale, Rents	150.00
Colver J. Stone, Trial Justice, Fines	64.80
Almshouse	299.32
Spring Grove Cemetery, Sale and Care of Lots	2954.44
Town House, Rents	275.50
Moth Dept., Overcharge	1.91
School Dept., Tuition and Supplies	339.61
Hay Scales	75.00
J. A. Arnold, damage to Traffic Sign	7.00
Auto Dealers' License	2.09
Cities and Towns, Mothers' Aid	180.00
Fire Department, Use of horses	1265.85
Fire Department, Rent of Shed	50.00
Fire Department, Boston Woven Hose Co.	12.29
Smart & Flagg Agents, refund, Collector's Bond	50.00
Sewer Department Assessments	967.74
<i>Amount carried forward</i>	<hr/> \$458911.73

account with the Town of Andover

C.R.

<i>Amount brought forward</i>	\$215203.61
State Aid	837.00
Mothers' Aid	4594.00
Retirement of Veterans	300.00
Redemption 23 Water Bonds	23000.00
Redemption 15 Sewer Bonds	15000.00
Redemption 5 Andover Loan Act Bonds	5000.00
Redemption 6 High School Bonds	6000.00
Water Department	26283.57
Sewer Department, Maintenance	2442.15
Sewer Department, House Connections	1150.27
Sewer Department, House Connection refund	27.92
Sewer Sinking Funds	1000.00
Water Sinking Funds	750.00
County Tax	15019.49
Commonwealth State Tax	20350.00
Commonwealth Bank Tax	1949.12
Commonwealth Highway Tax	6588.91
Commonwealth Special State Tax	1221.00
Andover National Bank, Notes	100000.00
	<hr/>
Total expenditures	\$446717.04
Balance on hand Jan. 1, 1920	
General Fund	28689.46
Water Loan	5026.59
Sewer Loan	356.59
Sewer Assessments for Sinking Funds	323.81
	<hr/>
	\$481113.49

**GEORGE A. HIGGINS, Treas., in account with the
Town of Andover**

DR.

<i>Amount brought forward</i>	\$458911.73
Sewer Department, Interest on Assessments	155.32
Sewer Department, House Connections	955.80
Andover National Bank, Deposits	782.64
Board of Health, Slaughter Licenses	7.00
Board of Health, Garbage Licenses	4.00
Board of Health, Alcohol Licenses	2.00
Board of Health, Reimbursement, Marland Case	54.00
F. H. Stacey, Milk Inspector	6.00
Lewando's Circus License	5.00
Phillips Academy, Street Lighting	230.00
Sinking Funds for redemption of Water Bonds	10000.00
Sinking Funds for redemption of Sewer Bonds	10000.00
	<hr/>
Total receipts	\$481113.49

Richardson Fund—Frye Village School

DR.	
Balance January 1, 1919	\$1254.04
Andover Savings Bank, interest	63.47
	<hr/>
	\$1317.51
CR.	
Deposit, Andover Savings Bank	\$1317.51
	<hr/>
	\$1317.51

Draper Fund—School

DR.	
Balance January 1, 1919	\$1147.79
Andover Savings Bank, interest	58.07
	<hr/>
	\$1205.86
CR.	
H. W. Tarbell	24.85
Deposit, Andover Savings Bank	1181.01
	<hr/>
	\$1205.86

Edward Taylor Fund—Fuel

DR.	
Balance January 1, 1919	260.11
Andover Savings Bank, interest	13.15
	<hr/>
	\$273.26
CR.	
Deposit, Andover Savings Bank	\$273.26
	<hr/>
	\$273.26

Varnum Lincoln Spelling Fund

DR.	
Balance, January 1, 1919	\$525.79
Andover Savings Bank, interest	25.57
	<hr/>
	\$551.36
CR.	
H. C. Sanborn, Supt. of Schools	20.00
Deposit, Andover Savings Bank	531.36
	<hr/>
	\$551.36

Isaac Giddings Burial Ground Fund

DR.

Balance, January 1, 1919	\$1000.00	
Andover Savings Bank, interest	50.62	
	<hr/>	\$1050.62

CR.

F. T. Carlton, Treas. South Semetery	50.62	
Deposit, Andover Savings Bank	\$1000.00	
	<hr/>	\$1050.62

Cemetery Funds

PERPETUAL CARE

DR.

Balance January 1, 1919	\$19738.13	
Andover Savings Bank, interest	1021.87	
Deposits for Perpetual Care	1675.00	
Andover National Bank Stock	200.00	
Andover National Bank Dividends	16.00	
Cash	64.00	
	<hr/>	\$22715.00

CR.

Spring Grove Cemetery, for care of lots	\$ 200.75	
Private Cemeteries for care of lots	611.37	
Deposits, Andover Savings Bank	21632.88	
Andover National Bank Stock	200.00	
Cash	70.00	
	<hr/>	\$22715.00

FIRE DEPARTMENT

To the Board of Selectmen.

GENTLEMEN:— In compliance with the regulations of the Fire Department, I submit the following report from January 1, 1919, to January 1, 1920. During this time 63 bell alarms and 3 still alarms were answered. In answering these alarms the apparatus has traveled 390 miles. We have laid 9500 feet of 2½-inch hose and 2600 feet of ¾-inch chemical hose.

Value of buildings and contents where fires have occurred, \$458,375.00; loss on buildings and contents, \$13,375.00; insurance on buildings and contents, \$398,638.00.

The working force of the department consists of three engineers, four permanent men and sixteen call men at Central Station, one permanent man and seven call men at Ballardvale.

The apparatus consists of one Auto Combination Chemical Truck, one Combination Pumping and Chemical Truck, one two-horse Ladder Truck, one Fourth Class Fire Engine, one two-horse Hose Wagon, one spare Hose Wagon and one two-horse Pung.

There are 4300 feet of 2½-inch hose in good condition.

The Fire Alarm is in good condition, with the exception of some of the old wires which will have to be replaced soon with new.

The earnings of the horses and drivers, rent of shed, for the past year were \$1315.65.

As a matter of economy to the town we would recommend the purchase of a chassis, to be fitted with the body of the spare hose wagon, and equipped for the use of brush fires and fire alarm work.

We are trying to make arrangements with the Board of Public Works to use the horses from the Central Station on the streets around the square, to lessen the expense of their keeping.

We would recommend the disbanding of the company at Ballardvale and turning the horses over to the Board of Public Works. This would mean a saving of about \$3500.00 a year, less the earnings of the horses which this year was \$1265.65. Before doing this we would recommend the purchase of an auto ladder truck.

Owing to the high cost of everything pertaining to the upkeep of the department and the adoption of the two-platoon system, we recommend the appropriation of \$20,000 for the ensuing year, together with the earnings.

Respectfully submitted,

CHARLES A. HILL

Chief Engineer

PUNCHARD FREE SCHOOL

REV. CHARLES W. HENRY, *President*

HARRY H. NOYES, *Clerk and Treasurer*

REV. E. VICTOR BIGELOW MYRON E. GUTTERSON

REV. NEWMAN MATTHEWS HARRY M. EAMES

FRANK T. CARLTON

REPORT OF TREASURER

PRINCIPAL FUND

January 1, 1919

Cash in bank	\$ 4980.77	
Real estate mortgage and bonds	71473.51	
	<hr/>	\$76454.28

December 31, 1919

Cash in bank	4303.42	
Real estate, mortgage and bonds	72150.86	
	<hr/>	76454.28

January 1, 1919

Cash in bank	4980.77	
Mortgages paid during year	3493.00	
	<hr/>	8473.77

December 31, 1919

Cash in Bank	4303.42	
Invested in new mortgages	2175.00	
Real estate (foreclosed)	1995.35	
	<hr/>	8473.77

INCOME

January 1, 1919

Cash in bank	1137.22	
Invested in mortgages, etc.	4831.20	
	<hr/>	5968.42

EXPENDITURES

N. C. Hamblin, Principal	730.00	
Helen M. Dunn, instructor	1065.00	
Edna S. Bennett, instructor	1030.00	
Marjorie W. Faunce, instructor	1030.00	
Ruth R. Hamblin, instructor	32.00	
City of Boston	2.75	
Andover National Bank, box rent	5.00	
Rogers & Angus, insurance	25.00	
Harry H. Noyes, treasurer	200.00	
F. E. Cheever, treasurer Alumni Association	25.00	
J. H. Playdon, florist	15.00	
Cash in bank	1808.67	
	<hr/>	5968.42

BARNARD FUND

January 1, 1919		
Cash in bank	25.50	
Dividends	40.00	
	<hr/>	65.50
Prizes awarded		
First	20.00	
Second	12.00	
Third	8.00	
Cash in bank December 31st	25.50	
	<hr/>	65.50

DRAPER FUND

January 1, 1919		
Cash in bank	1270.40	
Dividends	64.30	
	<hr/>	1334.70

GOLDSMITH FUND

January 1, 1919		
Cash in bank	264.48	
Dividends	12.85	
	<hr/>	277.33
Prizes awarded		
Girls' prize	5.00	
Boys' prize	5.00	
Cash in bank	267.33	
	<hr/>	277.33

HARRY H. NOYES, *Treasurer*

CORNELL FUND

Amount of Fund	\$5000.00
Deposited in Savings Banks	5000.00

INCOME

Balance from last account	\$152.86	
Income from Savings Banks	240.00	
	<hr/>	392.86

EXPENDITURES

Paid for coal and wood	\$212.07	
Balance on hand	180.79	
	<hr/>	392.86

W. D. WALKER
C. N. MARLAND
J. C. ANGUS

Trustees

AUDITORS' CERTIFICATE

We have examined the accounts of the several town officers and find them correctly cast, with satisfactory vouchers for all payments.

The Town Treasurer has on deposit in Andover National Bank and cash on hand:

General Fund	\$28689.46
Water Loan	5026.59
Sewer Loan	356.59
Sewer Assessments	323.81
	<hr/>
	\$34396.45

JOHN S. ROBERTSON
WALTER H. COLEMAN
HARRY SELLARS

Auditors

RECOMMENDATIONS OF FINANCE COMMITTEE

On account of the change in By-Laws of the town this is the first year that the Finance Committee has not included members of the principal town departments. The Committee met for organization November 5th and chose Mr. Henry Bodwell chairman, and Mr. E. V. French secretary. The great increase in all costs has affected the town as it has affected individuals, so that readjustments have been necessary in many of the town departments, requiring in most cases material increase in expenditures. The Committee have held eleven meetings at which the heads of the different town departments have presented the needs in the several fields and all the principal problems have been considered with care. Despite the high costs of to-day, the Committee feels that the business of the town must go on and that it would be poor economy not to keep all work up to a good standard. The following recommendations are made for 1920 and are unanimous.

Almshouse—Expenses	\$4500
Repairs	300

(The almshouse will have to be continued for a time, as the committee appointed to consider its future have not completed their work.)

Relief out of Almshouse	4000
Aiding Mothers with Dependent Children	3000
Board of Health	3000

(The increase, \$1000, is to pay for a nurse for six months, to continue careful provision for tuberculosis found necessary for many men returning from the army, and to improve the supervision of milk. The nurse would do educational work, particularly in the matter of contagious diseases, and in the correction of many troubles which prove serious later, as shown by army records, if neglected in childhood.

Amount carried forward

14800

<i>Amount brought forward</i>	\$14800
The Red Cross is to pay the cost of this nurse for half the year.)	
Brush Fires	600
Fire Department	18000
(The increase, \$8000, is due to the adoption of the two-platoon system by the town, to the increase in wages of the premanent men, and to the increase in the cost of all supplies.)	
Hay Scales	125
Highway Department	
Maintenance	30000
(The increase, \$5000, is on account of heavy snow costs already incurred this year.)	
New Construction	30000
(The Board of Public Works ask an appropriation of \$35000 for new construction, and state that so far as the amount will allow, work will be done on Main Street, Abbot Street, Summer Street, and Abbott Village, as far as the members of the present board can control the situation. The Finance Committee recommend an appropriation of \$30000 and the expenditure of the money on the streets as proposed by the Board of Public Works. The Committee considers that the work on Main Street should be done first, on account of the heavy through traffic, and that some of the work on the secondary streets be omitted if there is not enough money to do all. It is understood that the work on Main Street will be done between Hidden Road and Wheeler Street, as when the section from Wheeler Street to the Square is done, the area occupied by the tracks should be rebuilt at the expense of the Street Railroad Company, and this expense they are unable to incur this year.)	
Insurance (Fire)	2000
<i>Amount carried forward</i>	\$95525

<i>Amount brought forward</i>	\$95525
Insurance (Workmen's Compensation)	2200
Interest	15000
Memorial Hall Library	3000
(The increase of \$1000 is due primarily to necessary increase in salaries and wages.)	
Memorial Day	450
Post 99, G. A. R.	100
Miscellaneous	3000
Parks and Playsteads	1200
Police	7800
(The increase of \$1600 is due to increase in wages.)	
Printing and Stationery	1600
Public Dump	75
Retirement of Veterans, Acts of 1912	300
Redemption of Water Bonds	\$8000
Redemption of Punchard School Bonds	6000
Redemption of Andover Loan Act Bonds	5000
Redemption of Sewer Bonds	5000
	<hr/> 24000
Schools (in addition to receipts from fees, etc., estimated at about \$1000)	92000
(The increase of \$32000 is due primarily to a large increase in salaries, which was absolutely necessary in fairness to the teachers, and for the maintenance of an efficient teaching force. The increases in cost of coal and all other supplies, and in the wages of janitors account for the remainder of the total increase.)	
Sewer Department Maintenance	2500
Sewer Department Sinking Fund	1000
Soldiers' Relief	1200
Spring Grove Cemetery (to include Receipts)	2500
State Aid	1500
Street Lighting	6700
Town Officers	8415
<i>Amount carried forward</i>	<hr/> \$270065

<i>Amount brought forward</i>		\$270065
(This provides for making the salary of the Chairman of the Board of Selectmen, Assessors and Overseers of the Poor \$900, an increase of \$200; the salary of Town Clerk and Clerk of the Board of Selectmen \$1200, an increase of \$300; the salary of the Town Treasurer \$1200, an increase of \$300, and other small readjustments, making a net increase of about \$800. The Finance Committee recommend that the Collector of Taxes be paid a fixed salary of \$1800, and the total of \$8415 includes this amount.)		
Town House		\$3000
Tree Warden — Gypsy and Browntail Moth Dept.		4250
(The town must spend \$3250 on moth work to get a return of about \$400 from the State. It is considered that \$1000 ought to be spent for keeping the trees of the town in safe condition and cutting brush along the roadsides. The Finance Committee feel that the work on the trees and for control of moths is so related that the Tree Warden and the Moth Superintendent should be the same man.)		
Water Department		
Maintenance	\$16000	
Construction	2000	
Sinking Fund	750	
	<hr/>	18750
State Tax and Highway Tax (estimate)	\$28000	
County Tax (estimate)	15000	
	<hr/>	43000
Article 4. New construction—Lowell Street		5000
(This provides for continuing the work. The State pays \$5000 and the County \$5000, giving \$15000 in all.)		
Article 5. Wolcott Avenue, \$4000. Not approved.		
Article 8. Special Lights for Shawsheen Village. Not approved.		
Total		<hr/> \$344065

RESOURCES

Cash on hand	\$28800
Corporation and Bank Tax — about	30000
State Aid — about	800
Pauper Account — about	1500
Water Rates	24000
Sundries	350
From State for Schools — about	5600
Estimated from State Income Tax	20000
	<hr/> \$111050

Total to be raised	\$344065
Resources as above	111050

Balance to come from Andover Taxes	\$233015
Estimated Total Valuation	\$9147400

Based on the above figures the Tax Rate for 1920 would be as follows:—

Tax per \$1000	<u>233015</u>	
	9147400	\$25.47

There are many questions concerning the town finances, the keeping of books and records in the various departments, that might be co-ordinated. The Finance Committee was unable to go into these matters, for all of the available time was taken in considering the various appropriations called for by different departments.

We suggest that the Finance Committee organize immediately after the Town Meeting, so that they may keep in touch with all these matters throughout the year.

GEORGE ABBOT
HENRY A. BODWELL
J. H. CAMPION
WILLIAM B. CORLISS
E. V. FRENCH
GEORGE B. FROST
C. W. HOLLAND

Finance Committee

TOWN WARRANT

THE COMMONWEALTH OF MASSACHUSETTS

ESSEX, ss.: To either of the Constables of the Town of Andover:
GREETING.

In the name of the Commonwealth you are hereby required to notify and warn the inhabitants of said town who are qualified to vote in town affairs to meet and assemble at the Town House, in said Andover, on Monday, the First Day of March, 1920, at 6 o'clock a.m., to act on the following articles:—

Article 1.—To choose a Moderator for one year, Town Clerk for one year, Treasurer for one year, Collector of Taxes for one year, one member of the Board of Selectmen for three years, one member of the Board of Assessors for three years, one member of the Board of Assessors for two years (to fill vacancy), three members of the School Committee for three years, one member of the Board of Public Works for three years, one member of the Board of Public Works for two years (to fill vacancy), one member of the Board of Public Works for one year (to fill vacancy), one member of the Board of Health for three years, three Auditors of Accounts for one year, three Constables for one year, one Trustee of Memorial Hall Library for seven years, one Trustee of Memorial Hall Library for two years (to fill vacancy), one Trustee of Punchard Free School for two years (to fill vacancy), one Tree Warden for one year, one Trustee of Cornell Fund for three years and any other officers the town may determine to choose.

Article 2.—To take action on the following question, Shall licenses be granted for the sale of intoxicating liquors in this town?

Article 3.—To determine what sums of money shall be appropriated for Almshouse Expenses, Repairs on Almshouse, Relief

out of Almshouse, Aiding Mothers with Dependent Children, Board of Health, Brush Fires, Fire Department, Hay Scales, Highway Department, Insurance, Interest, Memorial Hall Library, Memorial Day, Post 99, G. A. R., Miscellaneous, Parks and Playsteads, Police, Printing and Stationery, Public Dump, Retirement of Veterans, Redemption of Water, Sewer, High School and Andover Loan Act Bonds, Schools, Sewer Maintenance, Sewer Sinking Funds, Soldiers' Relief, Spring Grove Cemetery, State Aid, Street Lighting, Town Officers, Town House, Tree Warden, Moth Department, Water Maintenance Construction and Sinking Funds, and other town charges and expenses.

Article 4.—To see if the town will appropriate a sum not exceeding \$5000.00, to continue the macadam on Lowell Street; the same to equal an amount which the State and County will severally appropriate, on petition of the Board of Public Works.

Article 5.—To see if the town will appropriate the sum of four thousand dollars (\$4000.00) to complete the work of reconstruction on Wolcott Avenue which was started in 1919, on petition of John F. O'Connell and others.

Article 6.—To hear and act on the report of the committee appointed to consider an Andover Memorial to those engaged in the World War.

Article 7.—To hear and act on the report of the committee appointed to consider the sale of the Andover Town Farm, or change in method of operating the same.

✓ Article 8.—To see if the town will accept and maintain thirty-four (34) street light standards and lights in Shawsheen Village as per plans submitted to Lighting Committee and appropriate a sum of money therefor, on petition of William M. Wood and others.

✓ Article 9.—To see if the town will accept as a gift from William M. Wood, a granite drinking-fountain to be located in Shawsheen Village, to take the place of the iron fountain now located there, on petition of William M. Wood and others.

Article 10.—To see if the town favors the granting, by the Selectmen, of a Sunday License for Moving Pictures, on petition of Samuel Resnik and others.

Article 11.—To see if the town will instruct and authorize the Board of Public Works to arrange and supervise the collection of ashes from houses of residents of the town, on petition of David R. Lawson and others.

Article 12.—To fix the pay of the firemen for the ensuing year.

Article 13.—To determine the method of collecting the taxes for the ensuing year.

Article 14.—To authorize the Town Treasurer to hire money for the use of the town in anticipation of the revenue of the current financial year, with the approval of the Selectmen.

Article 15.—To determine what disposition shall be made of unexpended appropriations.

Article 16.—To act upon the report of the Town Officers.

Article 17.—To determine the amount of money to be raised by taxation the ensuing year.

Article 18.—To transact any other business that may legally come before the meeting.

The polls will be open at 6 o'clock a.m., and may be closed at 2 o'clock p.m.

And you are directed to serve this warrant by posting attested copies and publication thereof, seven days at least before the time of said meeting as directed by the By-Laws of the town.

Hereof fail not and make return of this warrant with your doings thereon, at the time and place of said meeting.

Given under our hands this eighteenth day of February, A.D. 1920.

ANDREW McTERNEN
CHARLES BOWMAN

Selectmen of Andover

BOARD OF HEALTH

The Board of Health regrets that owing to the health conditions existing since the first of January, which not only has taken all their time as a Board but as individuals, it has been impossible to prepare our annual report and give it the care and thoughtful consideration such a report demands.

A full report will be made as soon as possible.

CONTAGIOUS DISEASES REPORTED DURING THE YEAR

Chickenpox	20
Diphtheria	25
German Measles	2
Scarlet Fever	3
Mumps	33
Spanish Influenza	274
Lobar Pneumonia	7
Whooping-cough	34
Tuberculosis	3

Respectfully submitted,

FRANKLIN H. STACEY, PH.C.
CHARLES E. ABBOTT, M.D.
BANCROFT T. HAYNES

Board of Health

**TRUSTEES OF
MEMORIAL HALL LIBRARY**

E. KENDALL JENKINS	ALFRED E. STEARNS
FREDERIC S. BOUTWELL	BURTON S. FLAGG
GEORGE F. SMITH	NATHAN C. HAMBLIN
FREDERICK A. WILSON	

President

E. KENDALL JENKINS

Secretary and Treasurer

FREDERIC S. BOUTWELL

Librarian

EDNA A. BROWN

Assistants

JULIA E. TWICHELL

EDITH DONALD

In Charge of Ballardvale Branch

MARTHA D. BYINGTON

Janitor

RAY DEARBORN

MEMORIAL HALL LIBRARY

FORTY-SEVENTH ANNUAL REPORT OF THE BOARD OF TRUSTEES

The Trustees of the Memorial Hall Library submit the report of the Librarian as embodying their own statement of the service and condition of the Library for the year 1919, and recommend the careful reading of that report by all of the citizens.

They would call special attention to the varied lines in which the Library now serves the public in addition to its main use for general reading and school reference.

Particularly noticeable in the past year has been its help for private courses of study and in suggestions for social entertainments. Never has it given wider or better service than now.

The larger appropriation asked of the town for 1920 is made necessary by the great increase in cost of books and in running expenses.

FREDERIC S. BOUTWELL
NATHAN C. HAMBLIN
GEORGE F. SMITH
ALFRED E. STEARNS
BURTON S. FLAGG
E. KENDALL JENKINS
FREDERICK A. WILSON

Trustee

TRUSTEES OF MEMORIAL HALL LIBRARY

In account with the Town of Andover, Mass.

RECEIPTS

Balance from last year	\$2233.82
Town Appropriation	2000.00
Dog Tax	484.42
Income from Investments	3503.53
Fines	178.95
Cash for lost books	11.65
Gifts	16.00
	<hr/>
Total	\$8428.37

EXPENDITURES

Salaries	\$3889.65
Lighting and Heating	631.20
Periodicals	199.43
Bookbinding	313.55
Books	739.68
Insurance	306.65
Sundry Items	346.99
Cash on Hand	2001.22
	<hr/>
Total expenditures	\$8428.37

Statement of Income and Expenditures for the year 1919

INCOME

	<i>Maint.</i>	<i>Books</i>	<i>Cornell</i>	<i>Total</i>
Income from Investments	\$12135.65	\$1024.88	\$343.00	\$3503.53
Town Appropriation	2000.00			2000.00
Dog Tax	484.42			484.42
Cash for lost books		11.65		11.65
Fines	178.95			178.95
Gifts		16.00		16.00
Total	\$4799.02	\$1052.53	\$343.00	\$6194.55

EXPENDITURES

Salaries	\$3784.58		\$105.07	\$3889.65
Lighting and Heating	545.61		85.59	631.20
Periodicals	199.43			199.43
Bookbinding	313.55			313.55
Books		739.68		739.68
Insurance	306.65			306.65
Sundry Items	346.99			346.99
Total	\$5496.81	\$739.68	\$190.66	\$6427.15
Unexpended Income		312.85	152.34	
Deficit	697.79			232.60

Condition of Funds and Unexpended Income on hand Jan., 1920

	<i>Funds</i>	<i>Unex. Inc.</i>
Maintenance Fund	\$46600.00	
Book Funds	17400.00	1011.29
Cornell (Permanent)	5000.00	382.27
Cornell (Purchase)	4044.98	530.35
Special		64.94
Total	\$73044.98	1988.85
Deficit in Maintenance Income		128.78
Balance of income on hand		\$1860.07
Income cash on hand	\$1860.07	
Principal cash on hand	141.15	
Total	\$2001.22	

INVESTMENTS

Bangor & Aroostook R. R. 4s	\$11000.00
Boston Elevated Ry. Co., 4s	10000.00
Boston Elevated Ry. Co., 4½s	1000.00
Chicago Railway Co., 5s	9962.50
Montreal Tramways Co., 5s	9962.50
Michigan State Tel. Co., 5s	4981.25
Boston & Maine R. R., 4s	2000.00
Boston & Albany Equip. Trusts, 4½s	2981.10
Mortgage on Real Estate	4000.00
Savings Banks	15444.98
Am. Tel. & Tel. Co., stock	571.50
Pacific Tel. & Tel. Co., 5s	1000.00
Principal Cash	141.15
	<hr/>
Total	\$73044.98

FREDERIC S. BOUTWELL, *Treas.*

I certify that I have examined and found correct the above statements as of January 20, 1920, whereby all securities held against the several funds have been examined and the income accruing from same accounted for.

All disbursements are supported by receipts in proper form and the cash has been verified and found correct.

BURTON S. FLAGG, *Auditor*

January 23, 1920

REPORT OF THE LIBRARIAN

To the Trustees of the Memorial Hall Library:

GENTLEMEN:

I herewith submit the report of the library for the twelve months ending December 31, 1919.

The circulation of books for this year exceeds that for 1918 by 3217, the total for 1919 being 42322, as opposed to 39105 for 1918. This is partly due to the fact that we escaped a repetition of the influenza epidemic, which a year ago, obliged us to close for three weeks, and partly to a greater use of the library, both in Andover and at the Ballardvale branch, which reports an increase of 553 more volumes circulated during 1919.

Our war service did not end with the cessation of the fighting; we had still our part of the reconstruction work to do. Books and magazines were still needed for the men yet overseas, for the coast guards and for the hospitals. For this purpose, the town contributed 470 volumes, all of interest and value. This makes a total of 2003 books collected and shipped since the appeal for reading matter first came to us. We have also sent an immense quantity of magazines.

We have again distributed many circulars on farming and on the use and conservation of food, issued by both state and government departments, though there has naturally been less demand for these pamphlets than was the case last year.

With the return of the men from service, there has been a steadily growing demand for books on business and industries of various kinds, all of which we are endeavoring to supply. These books are expensive, so that it is fortunate that the State Library Commission has recognized a condition existing all over Massachusetts and plans to meet it. If their plans are carried out,

there will be established in Boston a big technical lending library, from which any library in the state may borrow to meet any call upon it. The books are already in existence, having formed a part of the overseas and camp libraries of the American Library Association, and it only remains to assemble them in a central place where they will be available for all. We have done our best to provide these technical and business books, and in this connection are indebted to the Tyer Rubber Company, which is furnishing for the reading room a copy of the *India Rubber World*.

Our reference work as usual, has been heavy, especially with the schools. The customary lectures on the use of reference books were given to the sophomore classes in the Punchard School. This year, the class was so large that it was necessary to extend the lectures through a period of four weeks in order to give every pupil the benefit of this instruction. There is no doubt that this work brings the young people into closer touch with the library and helps them to realize its importance in the community and to appreciate its resources as never before.

It is interesting to look back over the year and to realize how many of the social events of the town are connected with the library. The library provided the material used by the High School for the Goldsmith and Barnard prize contests; it furnished stories and poems for every historic anniversary and holiday celebrated by the schools; almost every church entertainment had its source in some library book, or its originators came for help in carrying out their plans; club papers read in open meetings were based on material found on our shelves; the children at their parties have played games and acted plays taken from library books. All these are community tributes to our work, and in addition, there is a countless number of questions answered for individuals who have learned that when they want to find out anything, the library is the place to go.

For the coming year, we are facing a serious question in the very greatly increased cost of books. Before the war, the price of the average novel was \$1.25. It increased to \$1.35, to \$1.50, to \$1.60, to \$1.75, and is now openly appearing at \$2.00. This is true, not only of fiction, but of books in all classes; in some cases the price is doubled. Many of the interesting and important

biographies of the year are being issued at prohibitive prices. For these, we are obliged to wait until the first demand for the book is past, and we can obtain it at a sale. A dollar to-day in buying a book counts for only about a third of what it did five years ago. This fact makes it more than ever necessary to consider carefully every book purchased, and to buy only those of certain worth and permanent value. We cannot afford to buy books of interest only for the passing moment.

The cost of living strikes the library at all sides, not only in books, but in everything from coal to paste. To carry on our work as we have done in the past, to keep the same high standard of work and ideals, means an increased appropriation from the town, not only for necessary materials, but also for costs of proper administration.

Respectfully submitted,

EDNA A. BROWN

Librarian

STATISTICS OF THE LIBRARY

Number of books issued for home use at the Memorial Hall	36016
Number of books issued at Ballardvale	6306
Total	42322
Percentage of fiction circulated	70
Percentage of non-fiction circulated	30
New borrowers registered	309
Actual number of cards in use	2760
Books added by purchase	528
Books added by gift	89
Total accessions	617
Books withdrawn, worn out, etc.	75
Total number of books in the library	24860
Volumes rebound	377
Volumes bound, periodicals, etc.	91

BALLARDVALE

Number of books issued for home use	6306
Percentage of fiction	80
Percentage of non-fiction	20
Number of cards in use	340
Books added during 1919	73
Books now belonging to the branch	1475

INFORMATION FOR USERS OF THE LIBRARY

The Memorial Hall Library is open every day except Sundays and legal holidays from 9 to 12.30 in the morning, and from 3 to 9 in the afternoon and evening.

Any resident of Andover over ten years of age may have a library card upon filling out an application blank. Children in grades below the Punchard School are required to have their applications endorsed by both parent and teacher.

All grown people are allowed to take any reasonable number of books, provided that only one is a seven-day book. The Punchard pupils are permitted to borrow two, one fiction and one non-fiction.

Books are issued for fourteen days, *the date upon which the book is due* being stamped plainly on the "date due" slip at the time of issue. A book kept overtime incurs a fine of two cents for every day overdue. A few of the books most in demand are issued for seven days only. All these are labeled upon the book pocket, "Seven day book". Books lost or damaged must be paid for.

Seven day books are not renewed or reserved for anyone. Other books may be renewed if no one else has asked for them, and if a work not fiction, is specially desired for any serious purpose, notice of its return to the library will be sent on request.

The shelves of the whole library are open to all grown people. The books are arranged according to subjects, and it is often much more satisfactory to go to the shelves and examine the books than to depend upon the catalogue.

The only complete index of the contents of the library is the card catalogue. The printed catalogue of the books was issued many years ago, and is out-of-date, besides containing the names of many books which are no longer in the library. The new books are listed at intervals in the weekly paper, and cumulated in the yearly library report, but the only complete record is the card

catalogue. This catalogue is arranged alphabetically like a dictionary. To find whether any given book is in the library, look for it under the surname of the author, or under its title. The right-hand drawers of the case contain a second arrangement of cards where the books are entered according to the subjects of which they treat.

The new books purchased each month are placed for some weeks in a special case on the north side of the reading room, so that the most recent additions to the library may be found there. The library buys only a limited amount of new fiction, but it tries to fill the wants of the community in regard to other books desired. People are invited to suggest for purchase the titles of books they wish.

The library staff is always glad to answer questions or in any way to help visitors find what they want.

LIST OF PERIODICALS AND NEWSPAPERS TAKEN FOR THE READING ROOM

American monthly review of reviews

Atlantic monthly

Blackwood's magazine

Bookman

Book review digest

Catholic world

Century

Country gentleman

Christian Endeavor world (gift)

Country life in America

Cumulative book index

Etude

Forum

Garden magazine (gift)

Guide to nature (gift)

Harper's magazine

House beautiful (gift)

Independent

International studio (gift)
Ladies' home journal
Library journal
Life
Literary digest
Littell's living age
London weekly Times
Missionary review of the world
Nation
National geographic magazine
Nineteenth century
North American review
Outing
Outlook
Popular mechanics
Public libraries
Readers' guide to periodical literature
The Review
St. Nicholas
School arts magazine
Scientific American
Scribner's magazine
Survey
Woman's Home Companion
World's work
Youth's companion
Andover Townsman
Boston Herald
Boston Transcript
Christian Science Monitor (gift)
Lawrence Telegram
New York Times

NEW BOOKS ADDED DURING 1919

State and government documents are not listed. Duplicates, replacements and books for the Ballardvale Branch are also omitted.

GENERAL REFERENCE BOOKS

- | | |
|------------|--|
| 924.4 B82 | *Browning, C. H., comp. Americans of royal descent. |
| 016.8 G766 | Grainger, Edith, comp. Index to poetry and recitations. |
| 912 H18 | Hammond, C. S. & Co. Business atlas of economic geography. |
| 910 L66 | Lippincott, J. B. Co. Complete pronouncing gazetteer. |
| 929 W31 | *Waters, H. F. Genealogical gleanings in England. 2v. |
| 031 W89 | World book. 10v. |

PERIODICALS

- | | |
|-----------|--|
| 051 R32 | American monthly review of reviews, v. 48. |
| 071 A552 | Andover Townsman, v. 31. |
| 051 A881 | Atlantic monthly, v. 122, 123. |
| 052 B56 | Blackwood's Edinburgh magazine, v. 203, 204. |
| 051 B64 | Bookman, v. 47, 48. |
| 051 C33 | Century, v. 96, 97. |
| 370.5 E25 | Education, v. 38. |
| 051 F77 | Forum, v. 59, 60. |
| 716 G16 | Garden magazine, v. 27, 28. |
| 051 H23 | Harper's magazine, v. 137, 138. |
| 705 H81 | House beautiful, v. 44. |
| 051 I38 | Independent, v. 95-98. |
| 705 I61 | International studio, v. 65-67. |
| 020.5 L61 | Library journal, v. 43. |
| 071 L71 | Littell's living age, v. 298-301. |
| 071 N21 | Nation, v. 107, 108. |
| 910.5 N21 | National geographic magazine, v. 33, 34. |
| 052 N62 | Nineteenth century, v. 84. |
| 051 N81 | North American review, v. 208, 209. |
| 051 O94 | Outlook, v. 119-121. |
| 621 P81 | Popular mechanics, v. 30, 31. |
| 020.5 P96 | Public libraries, v. 23. |
| 051 S147 | St. Nicholas, v. 45, pt. 2, 46, pt. 1. |

*Gifts

- 605 S416 Scientific American, v. 119, 120.
 051 S434 Scribner's magazine, v. 64, 65.
 305 S96 Survey, v. 40, 41.
 051 W89 World's work, v. 36, 37.

ETHICAL AND RELIGIOUS WORKS

(Purchased chiefly from the Phillips Fund)

- 266 A42 Allen and Mason. Crusade of compassion.
 261 B41 Bell, B. I. Right and wrong after the war.
 177 B43s Bennett, Arnold. Self and self-management.
 268 B46 *Betts, G. H. How to teach religion.
 222 B81 Brown, C. R. Story books of the early Hebrews.
 134 C14 Cameron, Margaret. The seven purposes.
 134 C23 *Carrington, Hereward. Psychical phenomena and the war.
 233.6 H65 Hocking, W. E. Human nature and its re-making.
 220 H66h Hodges, George. How to know the Bible.
 248 K41 Kensington, J. J. Talking with God.
 233.6 L12 Ladd, G. T. Secret of personality.
 268 L434 Lawrance, W. I. Social emphasis in religious education.
 134 M56 Martin, A. W. Psychic tendencies of today.
 204 M43 Mathews, Shailer. Patriotism and religion.
 266 M76k *Montgomery, H. B. The king's highway.
 266 M78 Moorshead, R. F. Appeal of medical missions.
 266 P27 Patten, C. H. World facts and America's responsibility.
 248 P83 Porter, D. R. comp. The enrichment of prayer.
 268 S63a *Slattery, Margaret. American girl and her community.
 268 S63s *Slattery, Margaret. Second line of defense.
 252 S67 Soares, T. G. ed. University of Chicago sermons.
 178 S82 Stelze, Charles. Why prohibition.
 150 S977p Swift, E. J. Psychology and the day's work.
 270 W15 Walker, Williston. History of the Christian church.
 248 W42 Weigle and Tweedy. Training of the devotional life.

GENERAL ECONOMICS

- 330 C77 Cooley, C. H. Social progress.
 367 F41 Ferris, H. J. Girls' clubs.
 658 F54 Fisk, J. W. Retail selling.
 658 H76 Hoover, S. R. Science and art of salesmanship.
 341 P51 Phelps, E. M. comp. Selected articles on the league of nations.
 396 P83 Porter, K. H. History of suffrage in the United States.
 304 R67g Roosevelt, Theodore. Great adventure.
 347 S74 Spencer, E. W. Manual of commercial law.
 331 W153 Walker, G. L. Capitalism versus Bolshevism.
 348 Z75 Zollmann, Carl. American civil church law.

BOOKS ON EDUCATION AND SCIENCE

- | | |
|-----------|--|
| 613.8 B83 | Bruce, H. A. Nerve control and how to gain it. |
| 613 C15k | Camp, Walter. Keeping fit all the way. |
| 425 C85 | Crawford, D. G. Study of English. |
| 174 G74 | Gowin and Wheatley. Occupations. |
| 653 G86 | Gregg, J. R. Gregg shorthand. |
| 425 F39 | Fernald, J. C. Expressive English. |
| 595.7 L97 | Lutz, F. E. Field book of insects. |
| 371.9 P31 | *Peabody, F. G. Education for life. |
| 028 P87 | Powell, S. H. The children's library. |
| 421 U93 | Utter, R. P. Everyday pronunciation. |
| 371 W69 | Wilson, H. B. Motivation of school work. |

HOME MANAGEMENT

- | | |
|----------|---|
| 640 K25 | Keene, E. S. Mechanics of the household. |
| 645 G82 | Green, L. B. Effective small house. |
| 641 N31e | Neil, M. H. Economical cookery. |
| 635 P12 | Pack, C. L. War garden victorious. |
| 641 W11p | Wade, M. L. Book of potato cookery. |
| 645 W93 | Wright, Richardson, ed. Inside the house of good taste. |

MECHANICAL AND FINE ARTS

- | | |
|------------|--|
| 784 B81 | Browne, C. A. Story of our national ballads. |
| 654 H33 | Hayward, C. B. How to become a wireless operator. |
| 677 H66 | *Hummel, J. J. Textile fabrics and their preparation.
for dyeing. |
| 780 M38a | Mason and Surette. Appreciation of music. 2v. |
| 728 R56 | Robinson, A. G. Old New England doorways. |
| 629.1 V61h | Verrill, A. H. How to operate a motor car. |
| 750.9 W93 | Wright, W. H. Modern painting. |

THEATRE AND GAMES

- | | |
|-----------|--|
| 792 B39 | Belasco, David. Theatre through its stage door. |
| 793 G27 | Geister, Edna. Icebreakers,—games, etc. |
| 792 E14a | Eaton, W. P. At the new theatre, and others. |
| 792 E14p | Eaton, W. P. Plays and players. |
| 795 E52p | *Elwell, J. B. Principles, rules and laws of auction bridge. |
| 793 L18 | Lamkin, N. B. Dances, drills and story plays. |
| 794 L33 | Lasker, Edward. Chess and checkers. |
| 792 M18 | Mackay, C. D'A. Little theatre in the United States. |
| 792 M19co | Mackaye, Percy. Community drama. |
| 793 S62 | Skinner, E. L. Children's plays. |
| 793 S99 | Syrett, Netta. Robin Goodfellow and other fairy plays. |

LITERATURE, ESSAYS AND POETRY

- | | |
|-------------|--|
| 822 B27a | Barrie, Sir J. M. Admirable Crichton. |
| 822 B27as | Barrie, Sir J. M. Alice sit-by-the-fire. |
| 822 B27e | Barrie, Sir J. M. Echoes of the war. |
| 822 B43t | Bennett, Arnold. The title. |
| 824 B45 | Bergengren, Ralph. The perfect gentleman. |
| 821.08 B73a | Braithwaite, W. S. comp. Anthology of magazine verse for 1918. |
| 821.08 C15 | Campbell, Wilfred, comp. Oxford book of Canadian verse. |
| 599 C36 | Chapman, W. G. Green timber trails. |
| 808.9 C54 | Clark, S. H. Handbook of best readings. |
| 808.1 C71 | Colson, E. M. How to read poetry. |
| 821.09 C88 | Crowe, M. F. comp. Christ in the poetry of today. |
| 808.9 D29 | Davis, H. C. ed. Commencement parts. |
| 827 D91on | Dunne, F. B. Mr. Dooley on making a will. |
| 808.9 F68 | Fobes, W. K. comp. Five minute declamations. 2v. |
| 824 H72 | Holliday, R. C. Walking stick papers. |
| 824 H82a | Howe, M. A. DeW. The Atlantic monthly and its makers. |
| 842 H97 | *Hutchison, E. W. La chevalier de blanche fleur, etc. |
| 808.9 K28 | Kelley, R. E. Book of Hallowe'en. |
| 821 K62y | Kipling, Rudyard. The years between. |
| 827 L46h | Leacock, Stephen. The Hohenzollerns in America. |
| 655 M13 | McCourtie, W. B. Where and how to sell manuscripts. |
| 842 M26bt | Maeterlinck, Maurice. The betrothal. |
| 808.9 M69 | Mitchell, W. B. School and college speaker. |
| 821 N87n | Noyes, Alfred. The new morning. |
| 824 O19w | Overton, G. M. Why authors go wrong. |
| 824 P16d | Paine, A. B. Dwellers in Arcady. |
| 821.09 P18 | Palmer, G. H. Formative types in English poetry. |
| 821.09 P51 | Phelps, W. L. Advance of English poetry in the twentieth century. |
| 808.9 S313i | Schauffler, R. H. Independence day. |
| 810.9 T72 | Trent, W. P. and others. Cambridge history of American literature. v. 2. |
| 821 V26g | Van Dyke, Henry. Golden stars, etc. |
| 827 W22 | Ware, R. D. Rollo's journey to Washington. |
| 808.9 W46 | Wells, Carolyn, comp. Such nonsense. |

DESCRIPTION AND TRAVEL

- | | |
|------------|---|
| 917.4 C35 | Chamberlain, Allen. Vacation tramps in New England highlands. |
| 914.4 D29 | *Davis, W. M. Handbook of northern France. |
| 917.3 D58 | Dilnot, Frank. The new America. |
| 917.29 F35 | Fenger, F. A. Alone in the Caribbean. |

- 915.69 F49 Finley, John. A pilgrim in Palestine.
 917.59 J63 Johnson, Clifton. Highways and by-ways of Florida.
 917.445 L49 *Le Boutillier, A. B. Early wooden architecture of
 Andover, Mass.
 914.7 P78 Poole, Ernest. The village.
 910.4 R44 Riesenbergs, Felix. Under sail.
 914.41 S44 Sedgwick, A. D. Childhood in Brittany eighty years ago.

BIOGRAPHY

- 92 A212 Adams, Henry. Education of Henry Adams.
 92 B658 Botchkareva, Maria. Yashka.
 92 G865 Grenfell, W. T. A Labrador doctor.
 92 H136 Hale, Susan. Letters.
 92 H869 Hudson, W. H. Far away and long ago.
 92 D865 *Jones, Augustine. Life and works of Thomas Dudley.
 92 F862l Laughlin, C. E. Foch the man.
 92 F775 Livingstone, W. P. Christina Forsyth of Fingoland.
 92 B731m May, Florence. Life of Johannes Brahms. 2v.
 92 B223 Parker, C. S. An American idyll.
 92 M355 Phelps, W. L. Archibald Marshall.
 92 R674b Roosevelt, Theodore. Letters to his children.
 92 R674t Thayer, W. R. Theodore Roosevelt.
 92 T799 Tucker, W. J. My generation.
 928 G65 Gordon, George. Men who make our novels.
 927.8 M38 Mason, D. G. Contemporary composers.
 928.O96 Overton, G. M. Women who make our novels.

HISTORY

- 973 A129s Abbot, W. J. Soldiers of the sea.
 956.9 A87 *Atkinson, G. G. Jerusalem past and present.
 947 C16 Cantacuzene, J. D. G. Revolutionary days.
 974.2 C47 *Churchill, J. W. History of the first church in Dun-
 stable-Nashua, N. H.
 944 D85 Duclaux, Mary. Short history of France.
 973 F24 Farrand, Max. Development of the United States.
 950 G35 Gibbons, H. A. New map of Asia.
 940.9 H33f Hazen, C. D. Fifty years of Europe.
 973 N54b Nicolay, Helen. Book of American wars.
 947 R73 *Ross, E. A. Russia in upheaval.
 940.9 S31 Schapiro, J. S. Modern and contemporary European
 history.
 944 V37 Van Vorst, Bessie. Popular history of France.
 929.7 W23 Waring, L. F. Serbia.
 941.44 W69 *Wilson, Daniel. Memorials of Edinburgh in the olden
 time. 2v.

BOOKS ON THE GREAT WAR

- | | |
|--------------|---|
| 940.91 A36p | Aldrich, Mildred. Peak of the load. |
| 940.91 A36wh | Aldrich, Mildred. When Johnny comes marching home. |
| 940.91 A97 | *Ayres, L. P., comp. The war with Germany; a statistical summary. |
| 940.91 B164f | Bairnsfather, Bruce. Fragments from France. |
| 940.91 B27 | Barrés, Maurice. Faith of France. |
| 361 D29 | Davison, H. P. American Red Cross in the Great War. |
| 940.91 D321 | Dawson, Coningsby. Living bayonets. |
| 940.91 D324 | Dawson, E. P. Pushing water. |
| 940.91 G23 | Gauss, Christian. Why we went to war. |
| 940.91 G34 | Gibbons, Floyd. "And they thought we wouldn't fight." |
| 940.91 G355 | Gibbs, Philip. Way to victory. 2v. |
| 940.91 H321 | Hay, Ian. The last million. |
| 940.91 H86w | Huard, F. W. With those who wait. |
| 940.91 M22 | McMaster, J. B. The United States in the world war. |
| 940.91 M38 | Massart, Jean. The secret press in Belgium. |
| 940.91 M82 | Morgenthau, Henry. Ambassador Morgenthau's story. |
| 940.91 P18 | *Palmer, Frederick. America in France. |
| 940.91 R12 | Raemakers, Louis. Cartoon history of the war. v. 3 |
| 940.91 R42 | Rickenbacker, E. V. Fighting the flying circus. |
| 940.91 S56 | Sibley, F. P. With the Yankee division in France |
| 940.91 T49 | *Tiplady, Thomas. Cross at the front. |
| 940.91 W59 | Whitlock, Brand. Belgium. 2v. |
| 940.91 W93 | Wright, J. M. Poet of the air. |

FICTION

- Anthony, Joseph. Re-kindled fires.
- Arnim, M. A. B. Christopher and Columbus.
- Ashford, Daisy. Young visitors.
- Aumonier, Stacy. The Querrils.
- Bailey, H. C. The gamesters.
- Bailey, H. C. The highwayman.
- Bailey, Temple. The tin soldier.
- Bartley, Nalbro. A woman's woman.
- Barton, George. Strange adventures of Bromley Barnes.
- Beach, Rex. Winds of chance.
- Bennett, Arnold. *Clayhanger.
- Bennett, Arnold. The roll-call.
- Bennett, Arnold. *These twain.
- Bojer, Johan. The face of the world.
- Bojer, Johan. The great hunger.
- Bottome, Phyllis. Servant of reality.
- Brown, Alice. The black drop.
- Buckrose, Mrs. J. E. Marriage while you wait.

Buckrose, Mrs. J. E. Silent legion.
 Buckrose, Mrs. J. E. Tale of Mr. Tubbs.
 Burnett, F. H. White people.
 Clifford, Mrs. W. K. Miss Fingal.
 Clouston, J. S. Man from the clouds.
 Conrad, Joseph. Arrow of gold.
 Cooke, M. B. The cricket.
 Cooper, J. A. Cap'n Jonah's fortune.
 Cunningham, A. B. Manse at Barren rocks.
 Dawson, W. J. Chalmers comes back.
 Day, Holman. Rider of the king log.
 De la Pasture, E. E. M. The pelicans.
 De la Pasture, E. E. M. The war-workers.
 De Morgan, William. The old mad-house.
 Dillon, Mary. The American.
 Farnol, Jeffery. Our admirable Betty.
 Fisher, D. C. Day of glory.
 Glasgow, Ellen. The builders.
 Goodwin, Ernest. *Duchess of Siona.
 Gordon, C. W. Sky pilot in No-man's land.
 Gray, David. The boomerang.
 Grey, Zane. Wildfire.
 Haines, A. C. Fire-cracker Jane.
 Hall, Leland. Sinister house.
 Hanshew, T. W. Riddle of the purple emperor.
 Harker, L. A. Children of the dear Cotswolds.
 Harraden, Beatrice. Where your heart is.
 Harris and Leech. From sun-up to sun-down.
 Harry, Myriam. Little daughter of Jerusalem.
 Hergesheimer, Joseph. Java Head.
 Hurrell, F. G. Dreamer under arms.
 Ibanez, V. B. *Four horsemen of the apocalypse.
 Irwin, I. H. The happy years.
 Isham, F. S. Three live ghosts.
 Johnston, Sir Harry. Gay-Dombeys.
 Jordan, Elizabeth. Girl in the mirror.
 Kendall, R. S. Benton of the Royal mounted.
 Keyes, F. P. The old Gray homestead.
 King, Basil. City of comrades.
 Laing, Janet. *Before the wind.
 Lancaster, Hewes. Wind in the garden.
 Lane, R. W. Diverging roads.
 Lee, Jeannette. Raincoat girl.
 Leverage, Henry. Whispering wires.
 Lincoln, N. S. The three strings.
 Lippmann, J. M. Flexible Ferdinand.

MacConnell, S. W. Many mansions.
 MacGrath, Harold. Private wire to Washington.
 Marshall, Archibald. The Clintons, and others.
 Marshall, Archibald. The greatest of these.
 Marshall, Archibald. *Upsidonia.
 Mearns, Hughes. *Vinegar saint.
 Miller, A. D. Charm school.
 Montgomery, L. M. Rainbow valley.
 Morley, Christopher. Haunted bookshop.
 Mundy, Talbot. *Ivory trail.
 Oemler, M. C. Woman named Smith.
 Oppenheim, E. P. Curious quest.
 Paine, R. D. *Call of the offshore wind.
 Parker, Sir Gilbert. Wild youth and another.
 Perkins, L. F. Cornelia.
 Phillpotts, Eden. The spinners.
 Prouty, O. H. Good sports.
 Rees, A. J. Shrieking pit.
 Reynolds, Katherine. Green valley.
 Richards, L. E. Daughter of Jehu.
 Richmond, G. L. S. Red and black.
 Rinehart, M. R. *Dangerous days.
 Rinehart, M. R. Love stories.
 Robins, Elizabeth. Camilla.
 Robins, Elizabeth. The messenger.
 Sears, C. E. The bell-ringer.
 Sharp, Benjamin. *Captain of the vanished fleet.
 Snaith, J. C. The undefeated.
 Stacpoole, H. deV. Beach of dreams.
 Stacpoole, H. deV. The ghost girl.
 Steele, W. D. Land's end, etc.
 Sterrett, F. R. Jimmy the sixth.
 Stockley. Cynthia. Blue aloes.
 Swayne, Martin. Blue germ.
 Tarkington, Booth. Ramsey Milholland.
 Taylor, A. R. Mr. Squem and some male triangles.
 Thayer, Lee. Mystery of the 13th floor.
 Thurston, E. T. David and Jonathan.
 Tompkins, J. W. The starling.
 Turnbull, Margaret. The close-up.
 Turner, J. H. Simple souls.
 Van Dyke, Henry. Valley of vision.
 Van Schaick, George. Peace of Roaring River.
 Vorse, M. H. The Prestons.
 Waller, M. E. Out of the silences.
 Walpole, Hugh. The secret city.

Ward, Mrs. M. A. A. Elizabeth's campaign.
 Watts, M. S. From father to son.
 Webster, H. K. An American family.
 Wells, Carolyn. The diamond pin.
 Wells, H. G. Joan and Peter.
 Wemyss, M. C. E. *Oranges and lemons.
 Wharton, Edith. The Marne.
 Widdemer, Margaret. The wishing-ring man.
 Wiggin, K. D. Ladies-in-waiting.

CHILDREN'S BOOKS: NON-FICTION

398.4 A92	Aulnoy, M. C. J. Children's fairyland.
353 B15	Bailey, C. S. What to do for Uncle Sam.
808.9 B57	Blaisdell, E. A. Child-life readers. 5v.
620 B64	Bond, A. R. American boys' engineering book.
353 B54	Bryant, S. C. I am an American.
398.4 B93g	Burnett, F. H. The good wolf.
900 C36	Chandler, A. C. Magic pictures of the long ago.
928 C64	Cody, Sherwin. Four famous American writers.
533.6 C68b	Collins, A. F. Boys' airplane book.
940.91 C69	Collins, F. A. Naval heroes of to-day.
793 D16	Dalkeith, Lena. Little plays.
595.7 D91	*Duncan, F. N. Butterflies and moths.
338 F53	Fisher, E. F. Resources and industries of the United States.
92 R674ha	Hagedorn, Hermann. Boys' life of Theodore Roosevelt.
928 H24	Harris, A. B. American authors for young folks.
821.08 H33	Hazard, Bertha, comp. Three years with the poets.
92 L134h	Holland, R. S. Lafayette, we come!
398.2 J88	*Judd, M. C. Classic myths.
398.4 K68	Klingensmith, Annie. Household stories.
613 K74	Knight, A. P. Hygiene for young people.
940.91 K96	Kummer, F. A. Battle of the nations, 1914-1918.
940.1 L19	Lamprey, L. In the days of the guild.
398.4 L64j	Lindsay and Poulsson. Joyous travelers.
398.4 L81h	Lorenzini, Paolo. Heart of Pinocchio.
821.08 L94p	Lovejoy, M. I., comp. Poetry of the seasons.
793 L97s	Lutkenhaus and Knox. Story and play readers. 3v.
793 M12	Macbeth, Ann. Playwork book.
940.91 M21	McKinley, A. E. School history of the great war.
580 M82	*Morley, M. W. Flowers and their friends.
940.91 N54	Nida, W. L. Story of the world war.
808.9 S64g	Smith, E. S. comp. Good old stories.
793 S65	Smith, N. A. Plays, pantomimes and tableaux.
793 S84	Stevenson, Augusta. Children's classics in dramatic form. 5v.

580 T63	*Torelle, Ellen. Plant and animal children.
353 T84	Turkington, T. A. My country.
973.1 V32	Van Loon, H. W. History with a match.
793 V43	Varney, A. S. Story plays. 3v.
821 W98	Wynne, Annette. For days and days.

STORIES FOR CHILDREN

- Ames, J. B. Mystery of Ram Island.
Ashmun, Margaret. Isabel Carleton in the west.
Brown, E. A. Rainbow Island.
Burgess, T. W. *Adventures of Johnny Chuck.
Burgess, T. W. *Boy scouts of Woodcraft camp.
Craik, G. M. So-fat and Mew-mew.
Delano, E. B. Two alike.
Dyer, W. A. Dogs of Boytown.
Eaton, W. P. Boy scouts in Glacier park.
Gilchrist, B. B. Camerons of Highboro.
Gray, Joslyn. Rusty Miller.
Harris, A. E. Hale Merrill's honey quest.
Hough, Emerson. Young Alaskans in the far north.
Knipe, E. B. Girls of '64.
Perkins, L. F. Scotch twins.
Perkins, L. F. Spartan twins.
Phillips, E. C. Wee Ann.
Pier, A. S. Dormitory days.
Pier, A. S. Hilltop troop.
Putnam, E. H. Watty and Co.
Schultz, J. W. Lone Bull's mistake.
Schultz, J. W. Running eagle.
Seaman, A. G. Slipper point mystery.
Snell, R. J. Captain Kituk.
Wheeler, F. R. Boy with the United States naturalists.
Zwilmeyer, Dikken. What happened to Inger Johanne.

REPORT OF CUSTODIAN JOHN CORNELL ART GALLERY

To the Trustees of Memorial Hall Library.

GENTLEMEN: I herewith submit the report of the gallery for the twelve months ending December 31, 1919.

The attendance at the gallery has been low, though a little ahead of that of last year, 288 being registered. Of this number, 123 were adults and 165 children.

A significant reason for the low attendance can readily be found, as far as the children are concerned, in the vain attempts to get them to sing patriotic songs on the night General Edwards addressed the townspeople at the park. After two fruitless efforts the leader remarked, "There is no use in trying to compete with Charlie Chaplin."

It is undeniable that there are many adults who prefer the lure of the movies to visiting an art gallery, and equally undeniable that they have a perfect right to choose their amusements; but it is a pity that more parents are not alive to the fact that in the gallery they have a means of growth for their children which is most valuable, a real uplift.

It has been stated before, but it will bear repetition, that numbers do not always spell great results. Hand-picking always means perfect fruit. With few visitors at a time there is more opportunity for personal work. If only one adult appears in an afternoon, but remains an hour — a frequent occurrence — and goes away with an aroused interest in pictures, it has been worth while to have the gallery open.

Although the collection of stereographs is still in favor, new subjects would be an attraction. Then too, fresh copies should replace those which have become unsanitary from years of use. Before long there should be several new stereoscopes to replace those that have become dilapidated.

Respectfully submitted,

ABBIE S. DAVIS

Custodian

TOWN OF ANDOVER

TWENTIETH ANNUAL
REPORT

OF THE

BOARD OF PUBLIC WORKS

EMBRACING THE THIRTY-FIRST ANNUAL REPORT OF WATER
COMMISSIONERS AND TWENTY-THIRD
ANNUAL REPORT OF SEWER
COMMISSIONERS

FOR THE YEAR ENDING

DECEMBER 31, 1919

ANDOVER, MASS.
THE ANDOVER PRESS
1920

WATER COMMISSIONERS

1889—1899

*JOHN H. FLINT

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

SEWER COMMISSIONERS

1893—1894

*WM. S. JENKINS

*JOHN L. SMITH

CHARLES E. ABBOTT

1894—1899

*WM. S. JENKINS

*JOHN L. SMITH

*JOHN E. SMITH

BOARD OF PUBLIC WORKS

1899—1902

*JOHN H. FLINT

*WM. S. JENKINS

*JOHN L. SMITH

*JAMES P. BUTTERFIELD

*FELIX G. HAYNES

1903—1906

*JOHN L. SMITH

*FELIX G. HAYNES

*JOHN W. BELL

*LEWIS T. HARDY

JAMES C. SAWYER

1906—1907

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

HARRY M. EAMES

1907—1908

*FELIX G. HAYNES

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

*LEWIS T. HARDY

ANDREW McTERNEN

1908—1912

*LEWIS T. HARDY

*JOHN W. BELL, Treas.

JAMES C. SAWYER, Sec'y

ANDREW McTERNEN

WILLIS B. HODGKINS

1913—1914

*LEWIS T. HARDY ('16)

BARNETT ROGERS ('16)

ANDREW McTERNEN ('15)

THOS. E. RHODES, Sec'y ('14)

WILLIS B. HODGKINS, Treas. ('15)

1914—1916

THOS. E. RHODES ('17)

BARNETT ROGERS ('16)

*LEWIS T. HARDY ('16)

ANDREW McTERNEN, Sec'y ('18)

WILLIS B. HODGKINS, Treas. ('18)

1916—1917

BARNETT ROGERS ('19)

THOS. E. RHODES ('17)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1917—1918

BARNETT ROGERS ('19)

THOS. E. RHODES ('20)

ANDREW McTERNEN ('18)

CHAS. B. BALDWIN, Sec'y ('19)

WILLIS B. HODGKINS, Treas. ('18)

1918—1919

BARNETT ROGERS ('22)

ANDREW McTERNEN ('21)

PHILIP L. HARDY ('21)

CHAS. B. BALDWIN, Sec'y ('22)

THOS. E. RHODES, Treas. ('20)

SUPERINTENDENT

FRANK L. COLE

*Deceased

REPORT OF BOARD OF PUBLIC WORKS

To the Citizens of the Town of Andover, Mass.

Your Board of Public Works herewith submits its seventh annual report for the year ending December 31, 1919, which is also the thirty-first report of the Water System, and the twenty-third of the Sewer System. This is also the seventh report of the Highways and Parks under the jurisdiction of the Board of Public Works.

ORGANIZATION

Messrs. Barnett Rogers and Charles B. Baldwin were re-elected as members of the Board, and the organization took place on March 4th, the following officers being chosen:

Chairman, Barnett Rogers.

Secretary, Philip L. Hardy.

Treasurer, Thomas E. Rhodes.

The Board, having lost the services of Arthur R. Morse, who had acted very efficiently and faithfully in the capacity of Assistant Superintendent and clerk for a number of years, appointed George Dick to supersede him.

WATER DEPARTMENT

No extensions to water-mains were made during the past year, except on private work which was paid for by owner. The entire appropriation was spent on maintenance of the present system and the installation of new service-pipes, meters, and expenses incidental to them.

An overdraft of \$4257.99 is accounted for by the heavy and rather serious breakdown in the steam plant at Haggetts Pond Station which necessitated costly repairs.

The rules and regulations of the Water Department were revised, to take effect April 1, 1919, copies of which were sent to all water-takers.

The Board recommends the appropriation of \$16,000.00 for maintenance of the department and the sum of \$2000.00 for construction for the ensuing year. A more detailed statement of the department is given in the Superintendent's Report.

THE WATER BONDED DEBT

The Water Bonded Debt of the Water System January, 1919, was \$146,000.00. There has been paid during the year 1919 \$10,000.00 of the 4% bonds, and \$3000.00 of the 3½% bonds from the town treasury, and \$10,000.00 of the 4% bonds out of the Sinking Fund, making a total of \$23,000.00, leaving a bonded debt January 1, 1920, of \$123,000.00.

Of the above amount of indebtedness \$40,000.00 is redeemable by the Sinking Fund, which January 1, 1920, amounted to \$30,898.53.

The sum of \$750.00 should be appropriated for the Sinking Fund for the year 1920.

THE SEWER DEPARTMENT

No new construction was undertaken during the year 1919. Additional statement of the upkeep and maintenance of the present system is given in the Superintendent's Report, which there is no need of repeating here.

The amount of \$3000.00 appropriated at the last town meeting in March for filter-beds was not expended on account of the fact that it was impossible to obtain labor to execute the work. The Board recommends the sum of \$2500.00 for maintenance for the ensuing year.

THE SEWER BONDED DEBT

The bonded debt of the Sewer System January 1, 1919, was \$100,000.00. During the year 1919 \$5000.00 of the 4% bonds were paid out of the town treasury and \$10,000.00 from the

Sinking Fund, leaving a bonded debt of the Sewer System the sum of \$85,000.00.

Of the above amount of indebtedness, \$30,000.00 is redeemable by the Sinking Fund, which January 1, 1920, amounted to \$17,007.12.

The sum of \$1000.00 should be appropriated for the Sinking Fund for the year 1920.

HIGHWAY DEPARTMENT

During the past year approximately one-half mile of tarvia-bound macadam road was constructed, at an average cost of \$1.64 a yard. The increase in cost per yard is due to the increase in cost of material and labor. It is the policy of the Board to continue this form of construction (tarvia-bound) on the streets receiving severe traffic as rapidly as is possible with the money appropriated by the town for the same, with the idea in mind of constructing these roads first which are subject to the greatest travel and wear, and from the improvement of which the town as a whole would derive the greatest benefit.

Cinders have been placed on a great many of the roads in the outlying districts.

The roads already constructed have been maintained in nearly every instance by blanketing with tarvia in order to keep them in as good repair as possible.

A detailed statement of the expenditures of the appropriations is given in the Superintendent's Report.

The Board recommends the appropriation of \$35,000.00 for new construction, \$25,000.00 for maintenance, for the ensuing year.

SNOW REMOVAL

The Board has included under the maintenance appropriation the sum of \$1500.00 to take care of the cost of removing snow.

SIDEWALKS

Several sidewalks have been constructed during the past year in places where there was the most urgent need of the same, and

about 1500 feet of curbing has been set. Old sidewalks were blanketed where necessary.

LOWELL STREET

We have had Lowell Street in process of construction for the past five years, and a detailed statement of the expenditures and amount of work done during the year 1919 is given in the Superintendent's Report.

It seems advisable owing to the very poor condition of the remainder of this street, to complete this piece of construction as soon as possible. The Board hoped to receive an appropriation of \$10,000.00 from the town for this work for the ensuing year, but owing to the fact that \$5000.00 was the limit that would be obtained from the State and County, the Board advocates the appropriation of the latter amount by the town, an article for which will be included in the Town Warrant.

ESSEX STREET BRIDGE

At a meeting of the Board held on April 10, 1918, it was voted to insert the following "ad" in the Andover and Lawrence papers, and in the *Boston Transcript*:—

"Bids for widening Essex Street Bridge over Shaw-sheen River will be received up to 5 p.m., May 15th; new work to be of concrete construction; expenditure to be about \$7000; all bids to be sealed and addressed to the Chairman, Board of Public Works. Full information, also plans and specifications, may be obtained at the office of the Board, Town House, Andover, Mass.

"The Board reserves the right to accept or reject any bid."

The County Engineer had prepared in advance a bid-sheet, on which certain estimated quantities were shown, in order that each bidder might have a uniform basis from which to develop his figures, as, for example,—the estimated quantity of gravel to be excavated, quantities of cement and sand required to complete the work, etc. It was understood that no figures would be considered unless submitted in accordance with this form.

On the evening of May 15th bids were opened in the presence of four members of the Board, including the Superintendent (Mr. Hardy was not present at any meeting from April 10th to May 19th inclusive), disclosing figures as follows:—

E. P. Hall	\$4947.88
P. L. Hardy	6102.16
J. C. Collins	6117.50
Kendle Stoddard Company	6286.30
Essex Construction Company	7976.39
*A. Michellini & Sons	13996.00

*NOTE. In the last-mentioned bid certain other charges were suggested which would increase the total quite materially.

No action at this time was taken on any bid, as the County Commissioners had requested that all bids be submitted to them before contract was awarded. Accordingly, the chairman and one other member of the Board went into conference with the County Commissioners on the following day, and each bid was carefully considered. At the request of the Commissioners the County Engineer made a very careful examination of the figures submitted by the lowest bidder, E. P. Hall, and reported that in his opinion an error had been made, probably in figuring the labor, stating further that under no circumstances could the work in his opinion be completed according to specifications for less than \$6000.

The County Commissioners then advised our chairman that while the matter of awarding the contract would be left to the Board of Public Works, it was the custom of the Commssisoners to throw out a bid when, as in this case, there was so great a difference between that of the lowest bidder and the County Engineer's estimate.

At a meeting held on May 19th the recommendation of the County Commissioners was adopted, after which the contract was awarded to the *then* lowest bidder, P. L. Hardy.

Owing to the difficulties experienced with high water it has been quite impossible to complete the entire job, and there still

remains a small amount of work to be done in the spring, which consists of putting in the curbing, a cap on the railing, and a new sidewalk, together with some grading.

Respectfully submitted,

BARNETT ROGERS

T. E. RHODES

ANDREW McTERNEN

P. L. HARDY

C. B. BALDWIN

Board of Public Works

REDEMPTION OF BONDS

DR.

To redeem Water Loans	No. 2 due 1922	\$10000.00
	No. 3 " 1923	10000.00
	No. 4 " 1925	15000.00
	No. 5 " 1928	5000.00
Balance January 1, 1919		\$38497.50
Appropriation March 3, 1919		750.00
Interest on deposits		1651.03
		<hr/>
		40898.53
Redemption of No. 1, 1919		10000.00
		<hr/>
		\$30898.53

CR.

Water Loan Funds deposited:		
Andover Savings Bank	\$9546.63	
Andover National Bank	21351.90	
	<hr/>	30898.53

DR.

To redeem Sewer Loans	due 1928	30000.00
Balance January 1, 1919	\$25391.79	
Appropriation March 3, 1919	1000.00	
Interest on deposits	615.33	
	<hr/>	27007.12
Redemption of 1919 Loan	10000.00	
	<hr/>	17007.12

CR.

Sewer Loans deposited:		
Andover National Bank		17007.12

BARNETT ROGERS
THOS. E. RHODES
ANDREW McTERNEN
PHILIP L. HARDY
CHAS. B. BALDWIN
Sinking Fund Commissioners

Examined, { WALTER H. COLEMAN
JOHN S. ROBERTSON } *Auditors*
HARRY SELLARS }

SUPERINTENDENT'S REPORT

To the Board of Public Works.

GENTLEMEN:—I most respectfully submit the thirty-first report of the Water System, twenty-third of the Sewer System, and the seventh of the Highways and Parks, containing a brief summary of the principal work performed by the different departments, for the year ending December 31, 1919, with recommendations for the coming year.

WATER DEPARTMENT

During the year 1919 there were no new mains laid except on private streets; these were all paid for by Mr. W. M. Wood or the American Woolen Company, all being laid in Shawsheen Village. Water-pipe on January 1, 1920, was \$70.00 per ton delivered in Andover, practically the same as on January 1, 1919.

This last year has been rather unfortunate for our Maintenance Department. An advance in pay took place in the spring. Both the reservoirs were cleaned out: on May 10th and 11th the one on Bancroft Road, and on May 13th the one on Prospect Hill. The last week in August the piston rod worked loose on the piston and before it was discovered it had broken both upper and lower heads on the low-pressure end, as well as the piston chamber, and before this remedy was all completed, including four new valves, the job had cost \$4100. During the early part of 1919 the interior of the engine-room at Haggetts Pond was painted (two coats), this work being done by our own employees when they had time. Also the interior of No. 2 Station on Bancroft Road had two coats, as well as being wired for electric lights. During the past year the figures for pumping at Haggetts Pond, according to records, are given below:—

Run 365 days during 1919; 192 days on steam and 173 days on oil. The number of hours running time has been 3739.45, or an average of 10 hours 24 minutes; this does not, however, include starting, stopping or repairs. Number of gallons pumped by steam, 119,308,532; by oil, 98,971,265, or a total of 218,279,797, being 50 million gallons less than in 1918 when we pumped to Lawrence. Oil used in running, 12,447 gallons; coal used, 193 tons; average daily consumption, 598,027 gallons.

Days	Hours	Gals Pumped	Oil Used	Coal	Average Daily
365	3739.45	218,279,797	12,447 Gals.	193 Tons	598,027

Station No. 2 on Bancroft Road was started on January 14, 1919; this is now being run by electricity and we find it to be giving excellent service. It has been run since January 14th, 954 hours at a cost of power of \$751.50; add to this, labor, oil and coal for heating during the winter months \$250.00, make the average cost per hour of about \$1.00. This is a 5-inch centrifugal pump run by a 30 h.p. motor, and pumps 400 gallons per minute to the reservoir on Prospect Hill.

Water rates this year are \$23,864.58, about \$3200.00 less than 1918, but there has been fifty million gallons less pumped, as during 1918 we pumped to Lawrence about \$2400.00 worth.

There are no uncollected water rates.

For maintenance for the year 1920 I recommend the following:

Salaries and labor	\$9216.00
Coal	3300.00
Oils—fuel, engine and cylinder	1680.00
Power, No. 2 Station	800.00
Keeping horse and car	500.00
Miscellaneous	500.00
	<hr/>
	15996.00

SERVICE PIPE

There have been sixty-one applications received and fifty-one laid, which now makes 1521 actually in use, or a total length of 122,085 feet. There are ten of these applications started on new streets in Shawsheen Village, but not completed.

Spent on service pipes, meters, etc.	\$6535.21
Credits	4531.15
	<hr/>
	\$2004.06

While we really show an overdraft of \$4.06, there is owed this department for work not completed about \$150.00.

METERS

During the year there were 42 new meters set, varying from 5-8 inch to 2-inch.

I would recommend \$2000.00, same as in 1919, for construction account.

RECEIPTS

Various parties, service pipes, meters, and repairs	\$6022.65
Water rates	23864.58
	<hr/>
	29887.23

Credits paid Treasurer:

Water rates	\$23864.58	
Pipe accounts	6022.65	
	<hr/>	
	\$29887.23	\$29887.23

SEWER DEPARTMENT

No main sewers were laid during the year. There were nine applications for house connections received and eight were laid, making 742 in actual use.

Same appropriation will be necessary for 1920, \$2500.00.

SUMMARY COST OF CONSTRUCTION

WATER DEPARTMENT

DESIGNATION	Summary Approved Bills	Credits	Net Cost for 1918	Total Cost for Construction
Office Fixtures				\$561.75
Telemeters				1311.63
Telephone				184.77
Teams				583.65
Pipe Distribution				254405.02
Service Pipe	\$6535.21	\$4531.15	\$2004.06	30244.66
Water and Land				6687.23
Suction Pipe				1309.46
Reservoirs				16985.82
Coal Shed				806.97
Grading Land				1739.12
Workshop				1271.88
Buildings Pumping Station				9610.14
Pumping Plants				47983.54
Construction Expenses				9406.21
Tools				3593.14
Maintenance	19748.36	1491.50	18256.85	
TOTALS	\$26283.57	\$6022.65	\$20260.92	\$386684.93

SUMMARY COST OF CONSTRUCTION

SEWER DEPARTMENT

Sewer Main in feet	46040		
Number of Filter-beds		28	
Number of Sludge Beds		3	
Cost to Abutters			\$124519.78
Cost to Town			127358.05
Totals	46040	31	\$251877.

Includes Abbott Village Sewer

EXPENDITURES

NAMES	WATER DEPARTMENT			SEWER DEPARTMENT		
	Mainte- nance	Con- struction	Total	Mainte- nance	House Connection	Total
Payrolls, Labor and Teams	\$ 6991.95	\$2100.59	\$ 9092.54	\$1440.35	454.30	1894.65
Lawrence Gas Company, power and light	673.83		673.83	606.22		606.22
Smart & Flagg, bonds	6.00		6.00	20.00		20.00
W. I. Morse, supplies	191.79		191.79	2.05		2.05
Robinson Hardware Company	2.24		2.24	67.50		67.50
Philip L. Hardy, stock and labor	223.99	30.10	254.09	11.25		11.25
Lawrence Machine Co., stock and labor	103.14		103.14	85.03		85.03
Family Shoe Store	5.40		5.40	11.25		11.25
Highway Department				198.50		198.50
Boston & Maine, freight	25.46	50.84	76.30		141.70	141.70
Frank E. Dodge	23.10		23.10		18.00	18.00
Portland Stoneware Co., pipe					421.88	421.88
Davis Foundry Co.					45.00	45.00
Ernest T. Hethrington					69.39	69.39
Waterworks Equipment Co., supplies	329.30	113.32	442.62			442.62
American Express Co.	4.46	16.62	21.08			21.08
New England Tel. & Tel. Co.	250.22		250.22			250.22
Carfares	182.40		182.40			182.40
Andover Press, books and supplies	188.94	1.70	190.64			190.64
Curry Brothers	162.99	50.00	212.99			212.99
W. H. Welch		1.21	1.21			1.21
Chapman Valve Co.		36.08	36.08			36.08
H. Mueller Mfg. Co.	43.52	599.18	642.70			642.70
Boston and Lawrence Express . . . . .	.69	1.63	2.32			2.32
Buchan & McNally	15.20	31.61	46.81			46.81
Neptune Meter Co.	104.17	166.78	270.95			270.95
National Meter Co.		6.65	6.65			6.65

Gammon Meter Co.				18.00	18.00	18.00
Pittsburg Meter Co.				544.32	544.32	544.32
Boston Pipe and Fitting Co.				55.10	55.10	55.10
Lead-lined Iron Pipe Co., pipe and fittings				2323.34	2323.34	2323.34
Bride Grimes & Co.	97.76			28.27	126.03	126.03
Walworth Mfg. Co.	1.17			117.11	118.28	118.28
Raymond L. Buchan	143.09			25.30	168.39	168.39
Thomson Meter Co.	38.45			41.85	80.30	80.30
Chapman Valve Co.				24.05	24.05	24.05
Bingham & Taylor				151.56	151.56	151.56
A. R. Morse	25.00			25.00	25.00	25.00
Hersey Mfg. Co.	9.43			9.43	9.43	9.43
John Riley	4.00			4.00	4.00	4.00
C. I. Alexander & Son	11.11			11.11	11.11	11.11
American Steam Gauge Co.	16.20			16.20	16.20	16.20
J. D. Blackshaw	3.00			3.00	3.00	3.00
H. W. Johns Manville Co.	14.00			14.00	14.00	14.00
A. M. Colby	9.80			9.80	9.80	9.80
H. B. McArdle	14.70			14.70	14.70	14.70
J. E. Pitman	.65			.65	.65	.65
Chadwick Lead Co.	7.90			7.90	7.90	7.90
National Lead Co.	154.26			154.26	154.26	154.26
Sherman Envelope Co.	18.36			18.36	18.36	18.36
H. M. Eames, hay	61.18			61.18	61.18	61.18
John Shea, grain	153.50			153.50	153.50	153.50
Ludlow Valve Co.	62.00			62.00	62.00	62.00
A. W. Chesterton & Co.	6.00			6.00	6.00	6.00
Rennselaer Valve Co.	24.00			24.00	24.00	24.00
M. T. Stevens	1.30			1.30	1.30	1.30
George E. Winslow	6.00			6.00	6.00	6.00
H. E. Miller	6.50			6.50	6.50	6.50
C. A. Hill	.90			.90	.90	.90
Builders Iron Foundry	15.30			15.30	15.30	15.30
H. A. Prescott	77.45			77.45	77.45	77.45
Quemm & Co.	15.00			15.00	15.00	15.00

NAMES	WATER DEPARTMENT		SEWER DEPARTMENT		
	Mainte- nance	Con- struction	Total	Mainte- nance	House Connection
				Total	Grand Totals
Merrimac Boiler Works	164.55		164.55		164.55
W. H. Coleman	57.90		57.90		57.90
August Mitz	42.02		42.02		42.02
Frank E. Davis	64.62		64.62		64.62
J. H. Campion	60.68		60.68		60.68
F. L. Cole	18.00		18.00		18.00
Worthington Pump Co.	3768.77		3768.77		3768.77
M. T. Walsh	7.85		7.85		7.85
Treat Hardware Company	23.43		23.43		23.43
Andrew Wilson	35.21		35.21		35.21
Sam Smith Mich. Co.	1.50		1.50		1.50
John L. Morrison	55.40		55.40		55.40
Vacuum Oil Co.	634.58		634.58		634.58
Standard Oil Co.	28.75		28.75		28.75
Sinclair Oil Co.	1635.87		1635.87		1635.87
Andover Coal Co.	1883.43		1883.43		1883.43
Cross Coal Co.	600.50		600.50		600.50
Helen Tweedell	20.00		20.00		20.00
Rumsey Pump Co.	101.70		101.70		101.70
C. S. Buchan	16.80		16.80		16.80
TOTAL EXPENDITURES	\$19748.36	\$6535.21	\$26283.57	\$2442.15	\$11150.27
				\$3592.42	\$29875.99

HIGHWAYS AND PARKS

To the Board of Public Works.

GENTLEMEN:—I most respectfully submit the seventh annual report of the Highway Department for the year ending December 31, 1919, containing a brief summary of the principal work performed by the Highway Department, and recommendations for maintenance for 1920. This department has charge of the construction, alteration, repairs, maintenance and management of streets, sidewalks, and bridges, as well as the blanketing and oiling of streets.

HIGHWAY MAINTENANCE

Starting January 1, 1919, we used all the ashes that it was possible to obtain from the Pacific Mills, Lawrence, Mass.; also, a great deal was hauled by our own teams from Phillips Academy. Salem Street, mentioned in my last report, was completed to Jenkins Corner, as well as several other places. There was hauled and spread during 1919:

60	loads	on the River Road
14	"	" Brundrette Avenue
10	"	" Wildwood Road
14	"	" Highland Road
39	"	" Highland Road (team)
38	"	" Gardner Avenue
8	"	" Wolcott Avenue
19	"	" Abbot Street
9	"	" Rattlesnake Hill Road
23	"	" Shawsheen Road

And many other places where it took from two to three loads. In all during 1919 there was spent for ashes used on roads \$2700; what ashes were hauled from Phillips Academy were given to us. We are still taking all we can get this winter, being under contract with the Pacific Mills until April 1, 1920.

STREET CLEANING

Clean streets are a good advertisement for a town. To give a town this benefit, to attract the right kind of permanent residents, what better can you have than clean streets. And as the center of the town is now practically all tarvia roads, or blanketed with same, I recommend one more man for cleaning purposes. Gutters and catch-basins have been cleaned as usual.

SIDEWALKS

New sidewalks were built on Florence Street, Maple Avenue, and Cuba Street, as well as necessary driveways to property where driveways were in evidence. Many gutters were repaired, and crossings. Blanketing was done on walks on Essex Street, Bartlet Street, and Chestnut Street.

Curbing was set on Red Spring Road from Smith & Dove's dry-shed to connect with curbing at top of hill. Curbing was also laid on Stevens Street and Shawsheen Road.

BLANKETING AND OILING

During 1919 very nearly all tarvia roads were treated with a coat of Tarvia B; there was spent on this work for tarvia alone, \$4500.00. The cost of this work where patching is necessary is about four cents per square yard; where only a coat of tarvia and sand is required it cost only about two cents per square yard,—or with patching, about \$400.00 per mile, while where no patching is needed it may be done for \$175 to \$200, according to amount used. There was only one load of oil used this year.

HIGHWAY CONSTRUCTION

New streets were built on Maple Avenue, Florence Street, a portion of Wolcott Avenue, and Lowell Street. This work was all done by town labor and hired teams.

Maple Avenue, 3400 square yards of tarvia-bound road, catch-basin and drains repaired, cost, \$6806.95.

Florence Street, 1400 square yards of tarvia-bound road, one catch-basin and necessary piping corner of Elm Street and Florence Street, \$2134.31.

Wolcott Avenue, 1050 square yards of tarvia-bound road, at a cost of \$1252.33; or on new construction work, including drains and necessary catch-basins on these streets, there was spent \$10,193.59, and 5850 square yards of tarvia-bound road, or an average cost of \$1.64 per square yard for the three jobs.

LOWELL STREET

This, as you know, was done by the State, County, and Town, \$5000.00' being appropriated by each. Work was started on August 19th and completed on November 19th for the year, there being done in this length of time 3400 feet of 18-foot road, or 6800 square yards, being 200 yards more than was done in 1918 for same amount, with a balance of five cars of stone left to start 1920 work. This work cost \$14,958.42, divided as follows:—

Labor and teams	\$6432.82
Stone	2948.87
Freight	1377.27
Asphalt	1758.60
Gravel and sand	125.25
Fence, culverts, and painting	530.03
Water Department	204.45
Highway Department	1488.95
Miscellaneous	92.18
	<hr/>
	\$14958.42

There still remain about two miles to be done on this road, and at the present rate we are advancing it surely will take three years more before the Tewksbury line is reached. This is a very bad piece of road, as in the spring and fall when the frost is coming out there are complaints all the time.

BALLARD VALE

Cleaning gutters, catch-basins, dragging, and scraping roads, covering sidewalks with dust, and many small repairs is all that has been done in this section during the past year. Spent in the Ballard Vale section, covering labor, teams and material, \$2540.01. This was all maintenance, no new work.

RECOMMENDATION FOR 1920 MAINTENANCE

Labor and teams	\$12000.00
Sand and gravel	500.00
Blanketing streets	3000.00
Sidewalks	1500.00
Gravel and ashes	3500.00
Snow	1500.00
Drains	500.00
Bridges	500.00
Team and car	900.00
Miscellaneous	1100.00
	<hr/>
	\$25000.00

PARK DEPARTMENT

Taking care of parks, playstead, and Boulders, as well as burning leaves, together with the recaping of sidewalls and some pointing of side-walls, was the only work done during 1919.

Appropriation March, 1919	\$1200.00
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Expenditure	1273.79
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Overdrawn	<hr/> 73.79
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I would recommend for 1920, \$1200.00.

Respectfully submitted,

F. L. COLE, *Superintendent*

FINANCIAL STATEMENT

Appropriation March, 1919:

Highway Department	\$25000.00
Construction	10000.00
Lowell Street	5000.00
County	4986.12
State	4986.12
Special curbing	609.00
Credits	3348.31
Railway Tax	4596.83
	<hr/>
	\$58526.38

Total expenditure:

Maintenance	\$28518.88
Construction	9511.89
Sidewalks	3779.15
Lowell Street	14958.42
Tools, drains, snow	931.15
Bridges	196.52
	<hr/>
	57896.01
Balance	630.37

<hr/>	\$58526.38	\$58,526.38
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HIGHWAY EXPENDITURES, 1919

NAMES	Mainte- nance	Con- struction	Side- walks	Lowell Street	Tools Drains Snow	A. V. Bridge and Bridges	Totals
Payrolls, Labor and Teams	\$12263.66	3403.09		\$6432.81	\$ 90.83		\$22190.39
John L. Morrison	62.40			8.75	26.75		97.90
Essex Trap Rock Co., stone	188.78	2290.92		2289.47			4769.17
Winchester Trap Rock Co., stone	288.01		43.35				331.36
Holland Trap Rock Co., stone		194.82		73.20			268.02
General Crushed Stone Co., stone				586.20			586.20
Barrett Mfg. Co., tarvia	4542.63	2080.28		1758.60			8381.51
J. E. Pitman	152.84	25.37		272.00			450.21
Boston & Maine	737.87	929.73	67.14	1377.27			3112.01
J. H. Campion	35	70					1.05
Philip L. Hardy, labor and material	117.28	24.95			193.63	5525.76	5861.62
Burnham Motor Co.	317.53	300.00					617.53
Andover Coal Co.	47.88	104.03				215.00	151.91
John Franklin		158.00					373.00
E. H. Hall, labor and supplies				143.08	22.54		1146.24
Joseph Cole, inspector	980.62					475.00	475.00
Advertising						50.74	50.74
Arthur L. Little, testing						22.50	22.50
New England Culvert Co., pipe							519.75
C. M. White, culverts				114.95			108.00
W. I. Morse, tools and supplies							438.88
Highway Department	322.66						1488.95
Buchan & McNally	3.63			53.52			13.35
Raymond Buchan	144.62			1488.95			164.82
Water Dept., coal and supplies				9.72			204.45
Fred Kress, gravel				20.20			61.05
Herbert Lewis, gravel				204.45			204.45
D. Ozoonian, gravel				61.05			61.05
Buffalo Roller Co.				28.35			28.35
Roy M. Haynes				35.85			35.85
H. J. Stanchfield	87				9.30		9.30
W. F. Duffee & Co.	27.00				2.10		2.97
	287.25		3044.66		10.50		37.50
							3331.91

Robert W. Franz				15.00			15.00
W. M. Wood, special curbing				609.00			609.00
John Shea, grain				228.46			228.46
W. H. Coleman				57.65			57.65
Dr. Winchester				11.00			11.00
John C. Collins				442.00			442.00
Gray & Kendall				13.78			13.78
Lawrence Gas Company				2.92			2.92
John W. Richardson				6.00			6.00
H. Bruckman, grain				78.52			78.52
P. J. Daly, grain				77.00			77.00
Pacific Mills, ashes				2661.37			2661.37
Anderson & Bowman				132.00			132.00
Fire Dept., horses, rent, labor				1391.35			1391.35
Dyer Supply Co.				4.00			4.00
American Express Company				33.23			33.23
H. J. Dallman & Co.				13.71			13.71
H. A. Prescott				134.35			134.35
A. M. Colby				3.35			3.35
Patrick Dowd				12.00			12.00
Clinton Wire Cloth Co.				12.80			12.80
H. M. Eames, hay				205.58			205.58
J. H. Richardson, hay				218.46			218.46
Curry Bros., supplies				112.60			112.60
New England Sand & Gravel Co., sand				189.61			189.61
Smith & Dove				1.66			1.66
C. A. Hill				14.16			14.16
H. E. Fletcher, curbing				1639.02			1639.02
Alden Spearer, oil				159.00			159.00
Poor & Riley				5.68			5.68
G. W. Horne, roofing				2.80			2.80
Bride Grimes Company				8.54			8.54
Frank E. Dodge				4.50			4.50
Hamilton Brown & Co.				34.20			34.20
Shattuck Farm, sand				9.11			9.11
J. L. Harvey				25.80			25.80
Various Parties, sand and gravel				85.44			85.44
TOTALS				\$28518.88	\$9511.89	\$3779.15	\$6289.00
				\$14958.42	\$931.15		\$63988.49

COMPARATIVE STATISTICS

JANUARY 1, 1920

Year	Received from water rates	Net cost of maintenance	Cost of pumping	Cost per million gal'ns		Received per million gallons	Gallons pumped	No. of service pipes in use	meters in use	No. of h'd'nts	Miles of main pipe
				by total maintenance	by cost of pumping						
1889	Work commenced	.....	.....	.....	.....	.....	6 months	46	..	16	.....
1890	\$ 3106 38	2999 99	1776 21	52 85	27 97	82 81	24,911,445	309	80	163	20.50
1891	5349 32	3399 93	1806 93	40 77	25 53	68 42	64,595,597	462	122	165	21.50
1892	5977 41	3491 22	2185 83	36 42	23 13	73 46	85,618,190	542	171	174	22.37
1893	7647 95	3792 56	2408 2	38 31	28 47	71 27	104,123,285	601	204	178	23.50
1894	8378 44	4514 47	3354 04	37 32	26 87	71 81	117,847,305	654	237	178	23.53
1895	8434 15	4380 13	3151 33	37 47	20 71	78 79	117,354,950	706	278	180	24.00
1896	9052 31	4627 53	2557 61	37 67	20 71	69 61	123,476,542	752	326	184	24.12
1897	*8011 87	4336 58	2383 71	32 33	19 38	68 78	115,094,527	789	486	184	24.16
1898	7792 40	3662 43	2196 31	31 21	19 24	65 45	113,287,775	819	571	193	24.91
1899	9376 29	4471 04	2656 42	33 07	21 25	71 78	143,260,253	845	616	194	25.12
1900	10668 57	4915 23	3158 50	45 44	19 59	51 00	148,618,935	876	641	196	25.83
1901	*8941 83	7955 34	3430 35	40 59	25 63	100 01	175,062,920	897	670	196	25.84
1902	11805 21	5787 44	3035 47	55 52	21 96	86 89	118,031,451	934	701	205	29.69
1903	11563 79	7389 44	2922 36	44 25	20 84	81 98	133,085,521	958	722	219	30.17
1904	11818 53	6378 96	3004 34	44 03	20 87	75 60	144,164,563	981	757	221	30.49
1905	12409 79	7228 82	3426 98	45 39	17 29	76 48	164,150,879	1013	791	223	30.95
1906	13516 47	8121 39	3054 09	33 34	19 94	75 48	176,717,579	1036	813	224	31.03
1907	17267 86	8112 47	4825 63	39 52	19 97	79 41	242,025,757	1060	848	227	31.35
1908	14908 89	7419 65	3750 29	36 96	19 55	81 16	187,750,372	1101	884	257	35.22
1909	16407 21	7499 95	3967 72	36 50	18 50	76 93	202,885,685	1147	926	273	38.07
1910	17613 66	8378 32	4234 61	39 21	17 62	91 03	228,939,882	1187	977	290	40.81
1911	18515 99	7974 79	3584 62	39 58	17 48	95 99	203,401,371	1245	1023	321	44.34
1912	19687 47	8117 57	3583 45	36 84	19 58	96 58	205,097,460	1304	1081	344	46.99
1913	22739 88	8412 89	4471 18	43 86	18 86	83 47	228,344,927	1353	1146	351	47.70
1914	19614 00	10306 80	4434 65	42 49	18 55	93 32	234,973,550	1405	1195	364	49.64
1915	22451 01	9982 98	4464 45	46 67	21 91	94 02	†240,599,178	1465	1262	369	50.08
1916	23496 87	11998 60	4842 20	52 95	25 06	113 72	†220'945,880	1492	1290	377	51.19
1917	24780 82	11538 26	5460 42	58 93	37 56	100 67	†217,894,123	1503	1311	377	51.19
1918	27053 04	15838 48	10092 80	83 64	37 72	91 46	†268,733,008	1470	1328	378	51.19
1919	23864 58	18257 99	7093 30				†218,279,797	1521	1370	378	51.19

*Regulations and rates changed.

†No allowance for slippage.

